9-1305-201-20+P/986

TECHNICAL MANUAL

ORGANIZATIONAL MAINTENANCE MANUAL (INCLUDING REPAIR PARTS AND SPECIAL TOOL LIST) FOR SMALL ARMS AMMUNITION TO 30 MILLIMETER INCLUSIVE (FSC 1305)

READEX FICHE best copy available

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HEADQUARTERS, DEPARTMENT OF THE ARMY
OCTOBER 1981

D 101.11:

WARNINGS

DO NOT ROLL, DROP, THROW OR SUBJECT AMMUNITION TO ROUGH HANDLING.

AVOID INJURY FROM SHARP EDGES WHEN CUTTING AND HANDLING METAL STRAPPIN
THE END OF THE BAND MAY FLY UP SUDDENLY WHEN TENSION IS RELEASED.

TO PREVENT INJURY, RELEASE TENSION BY PRESSING DOWN ON TOP OF BOX WHI
CUTTING STRAPS ON SIDE OF BOX. CUT LEAD SEAL WIRE WITH PLIERS AND REMOV
TURN CATCH AND OPEN HASP, OR PULL OUT ON SPRING-LATCH TO RELEASE. LIFT BOX T
TO OPEN. ON SPRING-LATCHED BOXES, NOTE POSITION OF TOP FOR GUIDANCE
REPACKING. REMOVE TOP PADDING/FILLER (IF ANY) FROM BOX. REMOVE INNER PACK(s).

PRIMERS SHALL BE CLEANED ONLY WITH RAGS DIPPED IN ALCOHOL OR ACETON
PRIMERS SHALL BE COVERED WITH FIBER CONTAINER CAP DURING CLEANIN
TOUCH-UP OF AMMUNITION.

ELECTRICALLY-PRIMED AMMUNITION CAN FIRE IF EXPOSED TO HIGH-POWER RAD
FREQUENCY FIELDS. AVOID CONTACT OF ANY KIND WITH THE PRIMER, ESPECIAL
METAL OBJECTS. SEE TM 9-1300-206 FOR AMMUNITION HANDLING INSTRUCTIONS

ANY AMMUNITION FOUND WITH EXPOSED EXPLOSIVE SHOULD BE DISPOSED OF IN TH
PRESCRIBED MANNER, AS DIRECTED IN APPLICABLE STANDARD OPERATIN
PROCEDURES.

TM 9-1305-201-20&P
C4

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No. 4)

HEADQUARTERS
DEPARTMENT OF THE ARMY
Washington, DC, 22 January 1986

UNIT MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)
FOR
SMALL ARMS AMMUNITION TO 30 MILLIMETER
INCLUSIVE
(FSC 1305)

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C-1 and C-2	C-1 and C-2
None	C-2.1 (C-2.2 blank)
C-3 thru C-6	C-3 thru C-6
E-5 and E-6	E-5 and E-6
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E-7 and E-8	E-7 and E-8

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UNIT MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)
FOR
SMALL ARMS AMMUNITION TO 30 MILLIMETER
INCLUSIVE
(FSC 1305)

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DEPARTMENT OF THE ARMY
Washington, DC, 31 July 1985

ORGANIZATIONAL MAINTENANCE MANUAL
(Including Repair Parts and Special Tools List)
FOR
SMALL ARMS AMMUNITION TO 30
MILLIMETER INCLUSIVE
(FSC 1305)

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ORGANIZATIONAL MAINTENANCE MANUAL
(Including Repair Parts and Special Tools Lists)
For
SMALL ARMS AMMUNITION TO 30 MILLIMETER INCLUSIVE
(FSC 1305)

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E-3 through E-10	E-3 through E-9

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TECHNICAL MANUAL
NO. 9-1305-201-20&P

HEADQUARTERS
DEPARTMENT OF THE ARMY
WASHINGTON, DC, *5 October 1981*

UNIT MAINTENANCE MANUAL

(INCLUDING REPAIR PARTS AND SPECIAL TOOL LIST)

FOR

SMALL ARMS AMMUNITION

TO 30 MILLIMETER INCLUSIVE

(FSC 1305)

REPORTING OF ERRORS

You can help improve this manual. If you find any mistakes or know of a way to improve the procedures, please let us know. Mail your DA Form 2028 (Recommended Changes to Publications and Blank Forms), or DA Form 2028-2 located in the back of this manual direct to Commander, US Army Armament Munitions and Chemical Command, ATTN: AMSMC-MAY-T(D) Dover, NJ 07801-5001. A reply will be furnished to you.

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the circulation of air. Where practicable, dunnage strips should be placed under each layer of ammunition boxes to prevent mildew and rot. Suitable trenches should be dug to prevent water from running under the pile.

h. Ammunition when stored, should be segregated by caliber, type, and ammunition lot.

i. When only a part of a box of ammunition is issued or used, the ammunition remaining in the box should be protected by firmly fastening the cover.

j. Ammunition removed from the original packing should be tagged or marked so as to preserve the ammunition lot number and model number. Such identification is necessary to prevent otherwise serviceable ammunition being classified as unserviceable through loss of identity.

k. Electrically-primed ammunition can be fired if exposed to High-Power Radio frequency fields. Avoid contact of any kind with the primer, especially metal objects.

CHAPTER 2

DESCRIPTION AND DATA

Section I. GENERAL

2-1. Types of Small Arms Cartridge

a. The definition of a small arms cartridge is the assemblage of the cartridge case, primer, propellant and bullet or shot in a single unit of ammunition 30 millimeter or smaller. The complete assembly consists of all the components required to fire a weapon once.

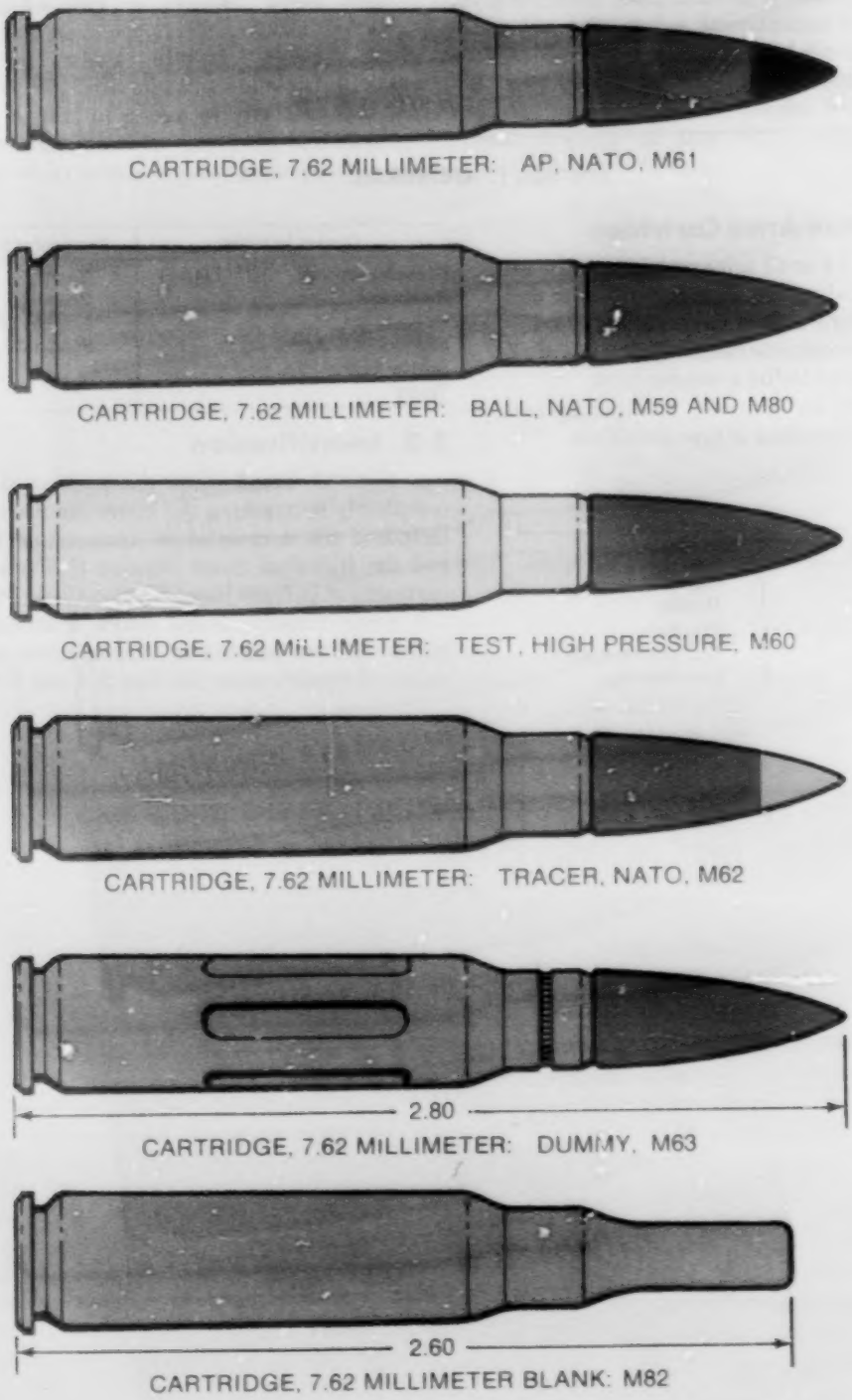
b. Depending upon its purpose, small-arms cartridges are classified according to type as follows:

Combat (service)	Noncombat (special)
Armor-piercing	Blank
Armor-piercing-incendiary	Dummy
Armor-piercing-incendiary-tracer	Frangible
Ball	High-pressure test
Ball, hornet	Line-throwing
Grenade cartridge	Match
Incendiary	Practice
	Practice-Tracer
Shotgun cartridge	Shotgun cartridge
Spotter-tracer	
Tracer	

2-2. Identification

a. General. Small arms ammunition is identified completely by marking the nomenclature on packing, including the nomenclature ammunition lot number and the Natiolnal Stock Number (NSN) and the Department of Defense Identification Code (DODIC).

b. Color Coding. Some small arms ammunition bullet tips are painted in various colors as a ready means of identification (see figs. 2-1 and 2-2).


CARTRIDGE, 7.62 MILLIMETER: AP, NATO, M61
CARTRIDGE, 7.62 MILLIMETER: BALL, NATO, M59 AND M80
CARTRIDGE, 7.62 MILLIMETER: TEST, HIGH PRESSURE, M60
CARTRIDGE, 7.62 MILLIMETER: TRACER, NATO, M62
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CARTRIDGE, 7.62 MILLIMETER: DUMMY, M63
2.60
CARTRIDGE, 7.62 MILLIMETER BLANK: M82
ARD-80 0191

Figure 2-1. 7.62 millimeter cartridges.

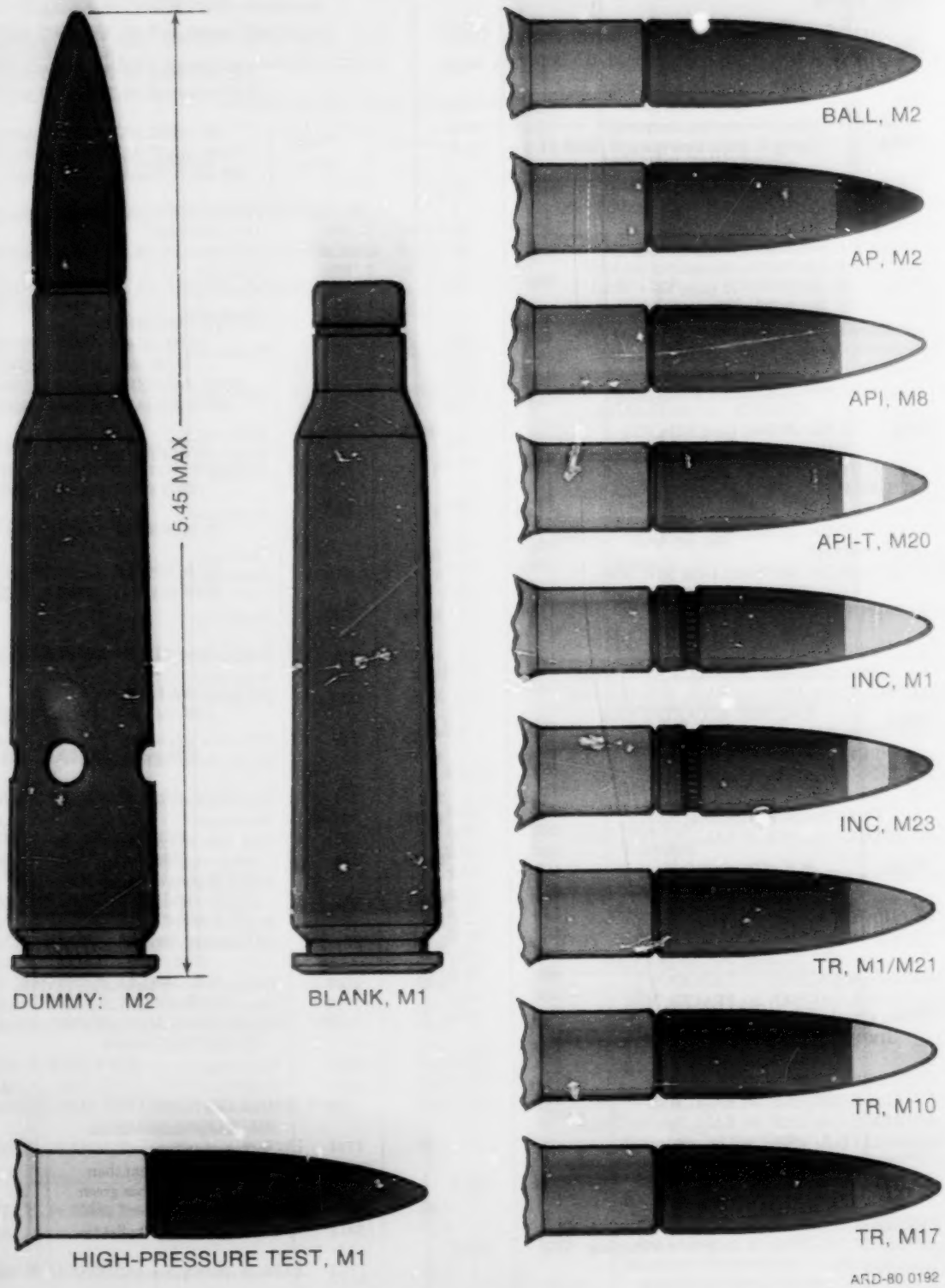


Figure 2-2. Caliber .50 cartridges.

Section II. LIST OF SMALL ARMS AMMUNITION

2-3. Data

All cartridges (rounds) of the Federal Supply Class 1305 used by the Army in the field are listed in table 2-1. This table reflects the nomenclature, le weight, identification and DODIC of each cartridg

Table 2-1. Army-Authorized Small Arms Ammunition

Nomenclature and caliber	Length (in.)	Weight grain)	Color identification	DOI
SHOTGUN CARTRIDGES				
CARTRIDGE, SHOTGUN, .410, No. 6, M35 Cal. .22/ .410 gage.	2.69	430	Aluminum case	A055
CARTRIDGE, SHOTGUN, 10 gage, blank	2.875	2.90		A010
CARTRIDGE, SHOTGUN, 12 gage, No. 00, M19	2.75	930	Brass case	A011
CARTRIDGE, SHOTGUN, 12 gage, No. 4, M257	2.515	748	Plastic case	A20
CARTRIDGE, SHOTGUN, 12 gage, No. 4, M274	2.530	74	Plastic case	A021
CARTRIDGE, SHOTGUN, 12 gage, No. 00, XM162— commercial pack.	2.530	736	Plastic case	A011
CARTRIDGE, SHOTGUN, 12 gage, No. 00, paper, commercial pack.	2.530	791	Paper case	A011
CALIBER .22 CARTRIDGES				
CARTRIDGE, Cal. .22 Ball, Long Rifle, M24	0.995	53	Brass case	A089
CARTRIDGE, Cal. .22 Ball, Hornet M65 (soft point).	1.723	103.0	Brass case w/center fire primer.	A088
CARTRIDGE, Cal. .22 Ball, Long Rifle, Match grade, commercial pack.	1.0	53	Brass case	A091
CARTRIDGE, Cal. .22 Ball, short super match or equal commercial pack.	0.69	—	Brass case	A084
CARTRIDGE, Cal. .22, Tracer, Long Rifle, M861	1.0	48.0	Brass case	A090
CALIBER .32 CARTRIDGES				
CARTRIDGE, CALIBER .32, BALL	0.984	115	Brass case	*
CALIBER .38 CARTRIDGES				
CARTRIDGE, CALIBER .38, BALL	1.18	196	Brass case	A401
CARTRIDGE, CALIBER .38, BALL WAD CUTTER	1.16	220	Brass case	A404
CARTRIDGE, CALIBER .38, BALL, SPECIAL M41	1.55	203	Brass case	A400
CALIBER .45 CARTRIDGES				
CARTRIDGE, CALIBER .45, BLANK, M9	1.108	104	Brass case w/o bullet	A476
CARTRIDGE, CALIBER .45 TRACER M26	1.275	331	Brass case w/red tip bullet.	A479
CARTRIDGE, CALIBER .45, LINE THROWING, M32 (Blank)	2.0	192	Brass case w/o bullet	A477
CARTRIDGE, CALIBER .45, BALL, M1911	1.275	331	Brass case	A475
CARTRIDGE, CALIBER .45 BALL, MATCH, M1911	1.275	334	Brass case w/head stamping on base of cartridge (NM)	A483
DUMMY CARTRIDGE, CALIBER .45, M1921	1.275	305	Drilled holes in case and absence of primer.	A501
CARTRIDGE, CALIBER .45, WAD CUTTER	1.255	330	Brass case	A482
CARTRIDGE, CALIBER .45 HIGH PRESSURE TEST, M1	1.28	324	Stannic Stained (silvered)	A480
CALIBER .50 CARTRIDGES				
CARTRIDGE, CALIBER .50, TRACER, M1	5.49	1785	Brass case w/red bullet tip.	A570
CARTRIDGE, CALIBER .50, TRACER, M10	5.45	1752	Brass case w/orange bullet.	A579
CARTRIDGE, CALIBER .50, TRACER, M17	5.45	1732	Brass case w/brown bullet.	A570
CARTRIDGE, CALIBER .50, BALL High Pressure Test, M251.	4.53	1902	Silver case	*
CARTRIDGE, CALIBER .50, BALL M2	5.45	1813	Brass case	A555
CARTRIDGE, CALIBER .50, BALL, M33	5.45	1762	Brass case	A552
CARTRIDGE, CALIBER .50, BALL, Spotter-Tracer, M48A2 (A1 Rifle M8C)	4.53	1744	Body design different than other cartridges.	A574
CARTRIDGE, CALIBER .50, BALL, Practice T249E2 (A1 Rifle M8C)	4.53	1738	Body design different than other cartridges has green bullet tip.	A579
CARTRIDGE, CALIBER .50, Ball, Armor Piercing, M2.	5.45	1812	Brass case w/black bullet tip.	A525
CARTRIDGE, CALIBER .50, Ball, Armor Piercing Incendiary M8.	5.45	1764	Brass case w/silver bullet tip	A531

*Refer to SC 1305/30-IL

Table 2-1. Army-Authorized Small Arms Ammunition—Continued

Nomenclature and caliber	Length (in.)	Weight (grain)	Color identification	DODIC
CALIBER .50 CARTRIDGES—Continued				
CARTRIDGE, CALIBER .50, Ball, Armor Piercing Incendiary-Tracer, M20	5.45	1718	Brass case w/silver ring to rear of red bullet tip.	A532
CARTRIDGE, CALIBER .50, Incendiary M1	5.45	1744	Brass case w/blue bullet tip.	A562
CARTRIDGE, CALIBER .50, Incendiary M23	5.45	1581	Brass case w/blue bullet tip w/light blue ring.	A563
CARTRIDGE, CALIBER .50, Blank, M1	3.910	9.7	Brass crimped case w/o bullet.	A558
CARTRIDGE, CALIBER .50, Blank, M1A1	3.910	9.15-9.55	Brass rosette crimp at mount.	A559
DUMMY CARTRIDGE, CALIBER .50, M2	5.45	1248	3 drilled holes in cartridge case and no primer.	A560
CARTRIDGE, CALIBER, .50, HIGH PRESSURE TEST, M1	5.45	2082	Stannic stained (silver) cartridge	A575
CARTRIDGE, CALIBER, .50, PLASTIC PRACTICE, M858	5.20	460	Blue bullet and case which are molded into one piece.	A603
CARTRIDGE, CALIBER, .50, TRACER PLASTIC PRACTICE, M860	5.20	460	Red bullet tip and the blue color bullet and case which are molded into one piece.	A595
5.56MM CARTRIDGES				
CARTRIDGE, 5.56MM, BALL, M193	2.26	182	Brass	A066
CARTRIDGE, 5.56MM: Ball, M855	2.26	190.0	Green bullet tip	*A064
CARTRIDGE, 5.56MM, GRENADE, M195	1.90	126	Rosette crimp case w/o bullet.	G843
CARTRIDGE, 5.56MM, TRACER, M196	2.26	177	Brass case w/red bullet tip.	A068 A071
CARTRIDGE, 5.56MM: Tracer, M856	2.26	192.0	Orange bullet tip	*A064
CARTRIDGE, 5.56MM: PLASTIC, PRACTICE, M862	2.20	118.0	Blue bullet (plastic)	A065
CARTRIDGE, 5.56MM, Blank M200	1.90	107	Rosette crimp at cartridge case mouth.	A080
DUMMY CARTRIDGE, 5.56MM, M199	2.26	150	6 longitudinal crimps in cartridge case.	A060
DUMMY CARTRIDGE, 5.56MM M232	2.26	161	Black	A069
CARTRIDGE, 5.56MM, Grenade M755	1.90	112	Rosette crimped case tip of crimp painted yellow.	**
CARTRIDGE, 5.56MM: High Pressure Test, M197	2.26	174	Stannic-stained (silver) or Nickle-Plated/case	A070
7.62MM CARTRIDGES				
CARTRIDGE, 7.62MM, Grenade M64	2.0	295	Brass case has rosette crimp w/o ball.	G839
CARTRIDGE, 7.62MM, Blank, M82	2.623	235	Brass case w/double tapered neck.	A110
CARTRIDGE, 7.62MM, Frangible, M160	2.80	315	Brass case w/green bullet tip, w/white ring.	A147
CARTRIDGE, 7.62MM, Ball M59	2.80	393	Brass case	A122
CARTRIDGE, 7.62MM, Ball, M80	2.80	392	Brass case	*
CARTRIDGE, 7.62MM, Ball, Match, M118	2.83	390	Brass case stamped by N.M.	A136
CARTRIDGE, 7.62MM: Ball, Match, M852	2.83	385	Brass case stamped by N.M.	*
CARTRIDGE, 7.62MM, Ball, Duplex M198	2.80	411	Brass case w/green bullet tip.	*
CARTRIDGE, 7.62MM, Armor Piercing, M61	2.80	393	Brass case w/black bullet tip.	A120
CARTRIDGE, 7.62MM, Tracer, M62	2.80	383	Brass case w/orange bullet tip.	A132
DUMMY CARTRIDGE, 7.62MM, M63	2.80	258	6 longitudinal corrugations.	A135
DUMMY CARTRIDGE, 7.62MM, M172	2.80	385	Black	*
CARTRIDGE, 7.62MM: HIGH PRESSURE TEST, M60	2.80	412	Stannic-stained (silver) case.	A129
9 MM CARTRIDGES				
CARTRIDGE, 9MM, BALL	1.169	182	Brass case	A360
CARTRIDGE, 9MM, BALL, NATO, M882	1.165	190	Brass case	A363
CARTRIDGE, 9MM, TEST, HIGH PRESSURE, M905	1.165	190	Stannic-stained (silver case)	A364
14.5MM CARTRIDGES				
CARTRIDGE, 14.5MM, Trainer-Spotter, M181A1	2.559	1065	Brass case has markings w/yellow projectile tip and has no fuze.	A365
CARTRIDGE, 14.5MM, Trainer, Spotter, M182A1.	2.559	1065	Brass case has markings w/yellow projectile tip and has no fuze.	A366
CARTRIDGE, 14.5MM: Trainer-spotter, M183A1.	2.559	1065	Brass case has markings w/yellow projectile tip and has no fuze.	A367

*Refer to SC 1305/30-IL.

**Item is packed with carrier D122-3141.

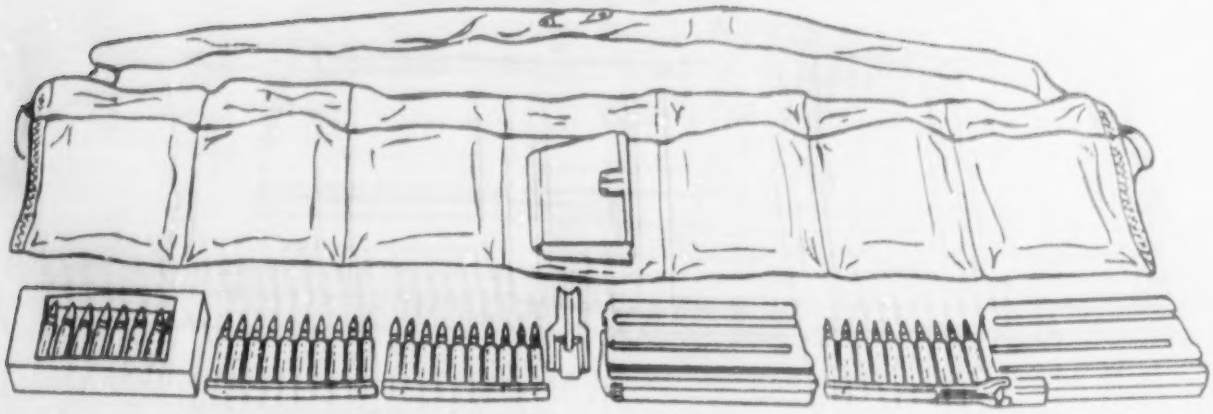
Table 2-1. Army-Authorized Small Arms Ammunition—Continued

Nomenclature and caliber	Length (in.)	Weight (grain)	Color identification	DODIC
20MM CARTRIDGES				
CARTRIDGE, 20MM, API-T, M52E1	6.575	3900	Brass or steel case w/black projectile w/red markings.	A869 A870
CARTRIDGE, 20MM: API, M53	6.575	3980	Brass or steel case w/black projectile w/white markings.	*
CARTRIDGE, 20MM, AP-T, M95	7.23	39935	Brass case, steel windshield on projectile painted black w/white markings.	A765
DUMMY CARTRIDGE, 20MM: M51A2	6.615	3850	Steel case, chromate markings in metal stamp.	*
CARTRIDGE, 20MM: HPT, M54A1	6.615	4392	Silvered case, purple painted projectile, black markings.	A892
CARTRIDGE, 20MM: TP, M55A2	6.615	3935	Brass or steel case, blue painted projectile w/white markings.	A889*
CARTRIDGE, 20MM: TP, M204	7.23	4000	Brass case, blue painted projectile w/white markings.	*
CARTRIDGE, 20MM: TP, M206A1	8.384	4886	Brass case, blue painted projectile w/white markings T marked orange.	A778*
CARTRIDGE, 20MM: Incendiary, M96	7.18	3850	Brass case w/light red painted projectile w/black markings.	A846*
CARTRIDGE, 20MM: TP, M99A1	7.23	7013	Brass case, blue painted projectile w/white markings.	A847
CARTRIDGE, 20MM:TP-T, M220	6.615	3935	Brass case w/blue painted projectile w/white marking T marking orange.	A651
CARTRIDGES, 20MM, HEI, M56A3	6.615	3965	Brass or steel case, projectile w/PD fuze yellow w/red	
CARTRIDGE, 20MM, HEI, M56A4	6.615	3965	band markings in black.	A490*
CARTRIDGES, 20MM, HEI, M97A2	7.227	4000	Brass case, projectile has base cover and PD fuze. Projectile yellow w/red band black markings.	A775*
CARTRIDGE, 20MM, HEI, M210	7.227	4000	Brass case w/yellow projectile w/red band and PD fuze black markings.	A863*
CARTRIDGE, 20MM, HEI-T, M242	6.602	3865	Brass case projectile w/PD fuze yellow w/red band and black markings. "T" mark-	
CARTRIDGE, 20MM, HEI-T, M242A1	6.602	3865	ings in orange.	*
CARTRIDGE, 20MM, HEI-T-SD, M246	6.615	4070	Brass case, projectile has a self destruct feature. Projectile has PD fuze; yellow w/brown and red bands. "T"	
CARTRIDGE, 20MM, HEI-T-SD, M246A1	6.615	4070	marking orange.	*
CARTRIDGE, 20MM, HEI-T, M599	8.4	4888	Yellow w/red "T" band black markings.	A787
CARTRIDGE, 20MM, API-T, M601	8.4	4774	Black w/red "T" band white markings.	A786
CARTRIDGE, 20MM: HIGH PRESSURE TEST, M54A1.	6.61	4392	Stannic-stained (silver) case.	A892
22 MILLIMETER				
22MM SUB-CALIBER PRACTICE CARTRIDGE M744	9.697	7679	Silver cartridge case w/blue projectile.	A680***
22MM SUB-CALIBER PRACTICE CARTRIDGE M745	9.697	7679	Silver cartridge case w/blue projectile.	A681***
22MM SUB-CALIBER PRACTICE CARTRIDGE M746	9.697	7679	Silver cartridge case w/blue projectile.	A682***
22MM SUB-CALIBER PRACTICE CARTRIDGE M747	9.697	7679	Silver cartridge case w/blue projectile.	A683***

*Refer to SC 1305/30-IL.
***For use with 60MM Sabot M3 and 81MM Sabot M1.

Table 2-1. Army-Authorized Small Arms Ammunition—Continued

Nomenclature and caliber	Length (in.)	Weight (grain)	Color identification	DODIC
25MM CARTRIDGES				
CARTRIDGES, 25MM, APDS-T, M791	8.779	7725	Case painted OD; projectile black w/white markings.	A974
CARTRIDGES, 25MM, HEI-T, M792	8.630	7725	Case painted OD; projectile yellow/red band.	A975
CARTRIDGES, 25MM, TP-T, M793	8.630	7725	Case painted OD; projectile Blue w/white markings.	A976
30MM CARTRIDGES				
CARTRIDGE, 30MM, TP, M788	7.864	5371	Aluminum case w/projectile blue w/white markings.	
CARTRIDGE, 30MM, HEDP, M789	7.864	5371	Aluminum case, projectile yellow w/black markings.	
CARTRIDGE, 30MM, HEI-M799	7.864	5371	Aluminum case, projectile yellow w/black marking and red band.	B123
25.4MM CARTRIDGES				
CARTRIDGES, 25.4MM, Decoy, M839	8.08	2380	Unpainted plastic case.	A965



ARD80-0193

Figure 2-3. Cartridge clips and bandoleer for 5.56mm cartridges.

2-4. Accessories

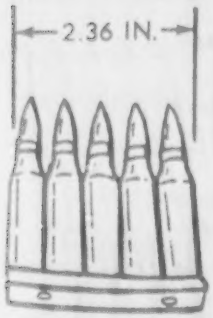
a. General. Accessories used with small-arms ammunition, such as clips and metallic belt links, are described in this section. These items are listed and packed as indicated in SC 1305 30-IL.

b. Clips.

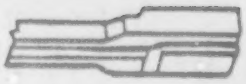
(1) Cartridges for the 5.56mm M16 rifle are assembled in 10-round clips. Cartridges for the 7.62mm M14 rifles are assembled in 5-round clips. All cartridges are packed in bandoleers with separate magazine fillers.

(2) 5.56mm, 10-round. This clip (fig. 2-3) consists of a channel-shaped body containing a spring with narrow tabs at each end. After clip is filled, tabs are bent at right angles to extractor rims of end cartridges to hold them securely in the clip.

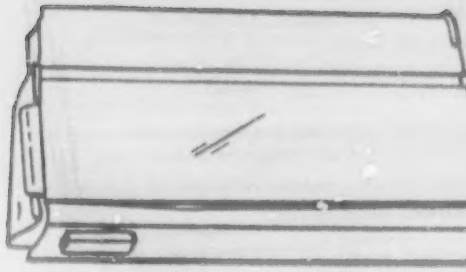
(3) 7.62mm, 5-round. This clip (fig. 2-4), which consists of a channel-shaped body containing a spring, facilitates loading of magazines. Loaded clips are fitted into top of rifle receiver, and cartridges are pressed into magazine assembly. A magazine filler, which adapts clips to magazine, allows individual magazines to be loaded with clopped ammunition. This clip is 2.36 inches long. The 7.62mm ammunition and clip are shown with the M14 bandoleer in figure 2-5 and with the M4 bandoleer, in figure 2-6.



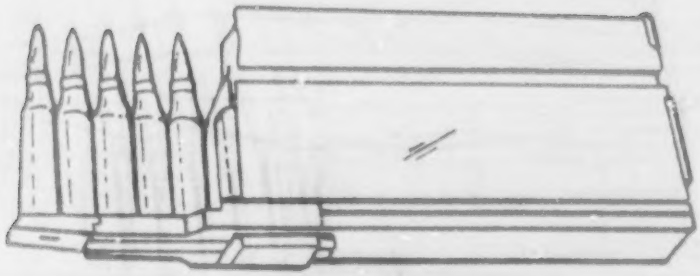
A. 7.62-MM (5 RD) CARTRIDGE CLIP



B. 7.62-MM FILLER



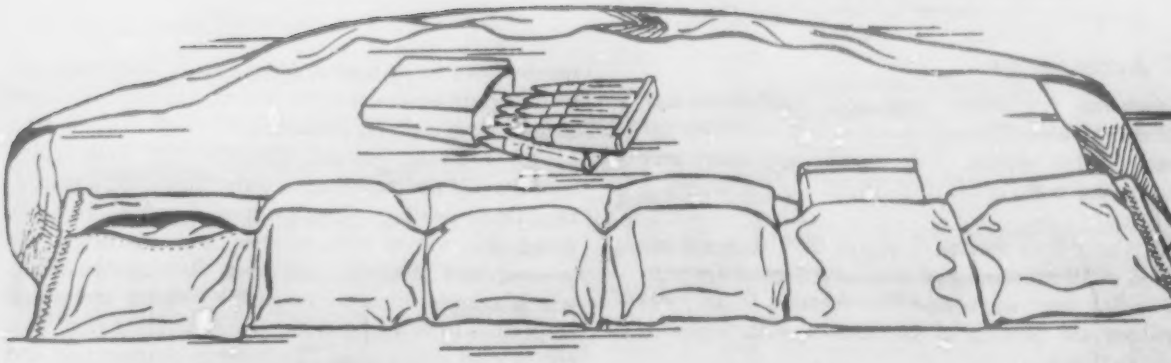
C. 7.62-MM MAGAZINE



D. 7.62-MM (5 RD) CARTRIDGE CLIP WITH FILLER AND MAGAZINE ASSEMBLY

ARD80-0194

Figure 2-4. Cartridge clip, filler, and magazine assembly for 7.62mm cartridges.



ARD80-0

Figure 2-5. M14 bandoleer for 7.62mm cartridges.

Figure 2-6. M4 bandoleer for 7.62mm cartridges.

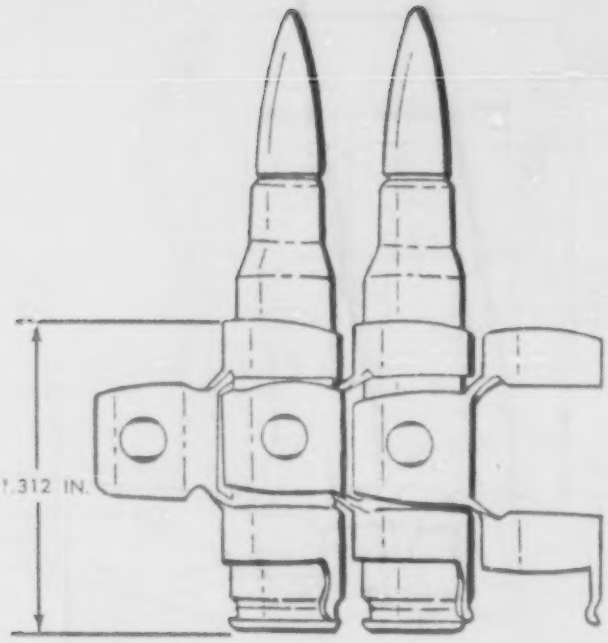
(4) Pistols and other hand guns. Clip for the pistols such as the 45 caliber or 32 caliber do not come preloaded from the ammunition supply point. The magazine for the sub-machine gun M3 or M3A1 holds 30 rounds of ammunition and this also is not preloaded.

c. Metallic Link Belts. Ammunition for use in machine guns is issued in metallic link belts. Link belts are made of units of cartridges and links. Each link has two loops fitted around a single cartridge and one loop fitted around adjacent cartridge. Each cartridge in a metallic link belt has two links attached to it, except the end cartridges. Cartridge links are made of steel which is processed to prevent rusting. They are manufactured and tested to assure satisfactory ammunition feed and functioning under all service conditions.

(1) *Closed loop links.* Caliber .50, M2 and M9 links are manufactured with closed loops. When assembled with cartridge in belts, these links fit on cartridge shoulder. The tapered front loops of these links are positioned firmly on cartridge shoulder to hold cartridge in proper alignment for feeding into weapon. This design requires cartridge to be extracted from the rear and dropped into position for moving into chamber for firing. Weapons designed for these links require additional space in the rear of receiver for retraction.

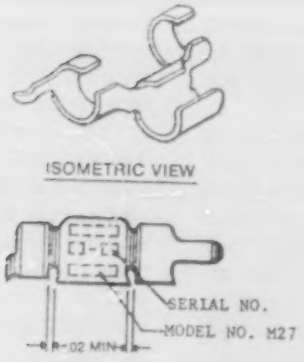
(2) *Open loop links.* The caliber .50, M15A2 and 7.62mm, M13 (fig 2-7) links (view C, fig 2-8) are manufactured with partially open loops and have a positioning finger on one side which snaps into extractor grooves of cartridge to retain cartridge in proper feed alignment. This link design permits a portion of bolt to ride through link loop openings and push cartridges forward and out of the link into chamber for firing. Weapons using this type link are designed and manufactured with a short receiver.

(3) *M27 link for 5.56mm.* The M27 link is a reduced size of the 7.62mm link M13. The body link fits into the extractor groove on the cartridge case. The US Navy uses this link with the Stoner Machine Gun M63. The US army designates its use for the XM249 Machine gun.



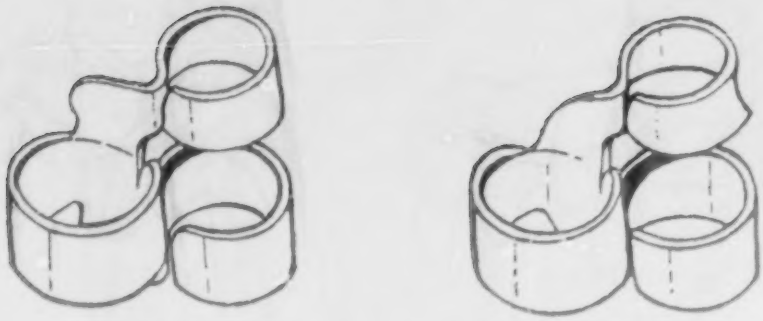
ARD80-0197

Figure 2-7. Cartridge link M13 for 7.62mm cartridges.



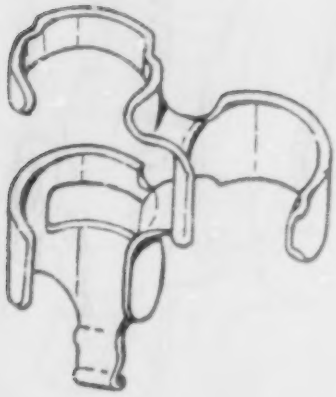
ARD82-0365

Figure 2-7.1. M27 link for 5.56mm.



CALIBER .50, M2 CALIBER .50, M9

A. CLOSED LOOP



CALIBER .50, M15A2

B. OPEN LOOP ARD80-0198

Figure 2-8. Cartridge links and metallic belt end.

d. Links for 20mm Cartridges.

(1) ***Link, M10 in M3 and M24 Gun*** (fig 2-9). This link is utilized in M3 and M24 belt-fed automatic guns. The links are of steel and the belt is formed by the placement of cartridges within the links. The links are selt-separating when the cartridges are removed during the gun feeding cycle. This metallic link can be used to make up belts for either right-or left hand feeding of the gun. A cartridge metallic-link filler is used at end of belt when it is desired to load belts for either double-loop left-hand feed, or double-loop right-hand feed. The purpose of the link-filler is to close the single loop when it is at end of belt to prevent snagging in feed chute.

(2) ***M12 metallic link.*** The M12 metallic link (fig 2-10) is used in belt-fed gas-operated M39 Series automatic aircraft guns. The ammunition belt is formed by connecting a specified number of links together and then inserting a cartridge for each link. The links are self-separating when cartridges are removed during the gun-feeding cycle. The M12 is an end loading link and is linked for either right or left hand feeder.

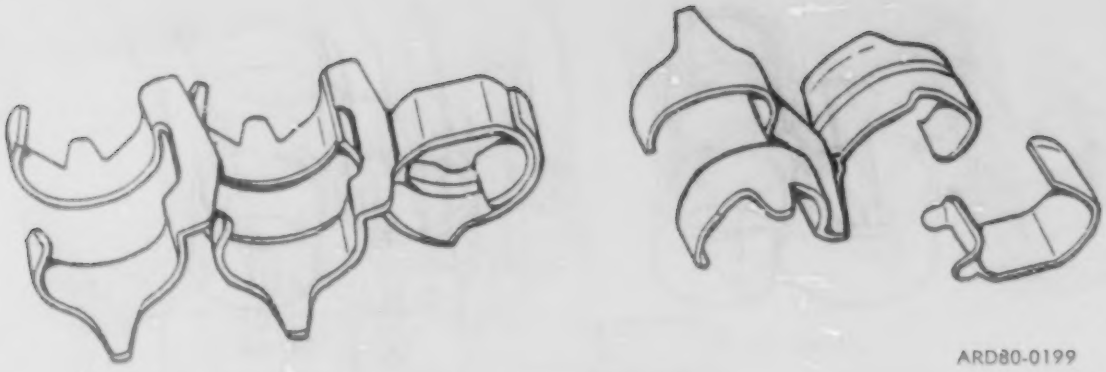


Figure 2-9. M10 link 20mm cartridges.

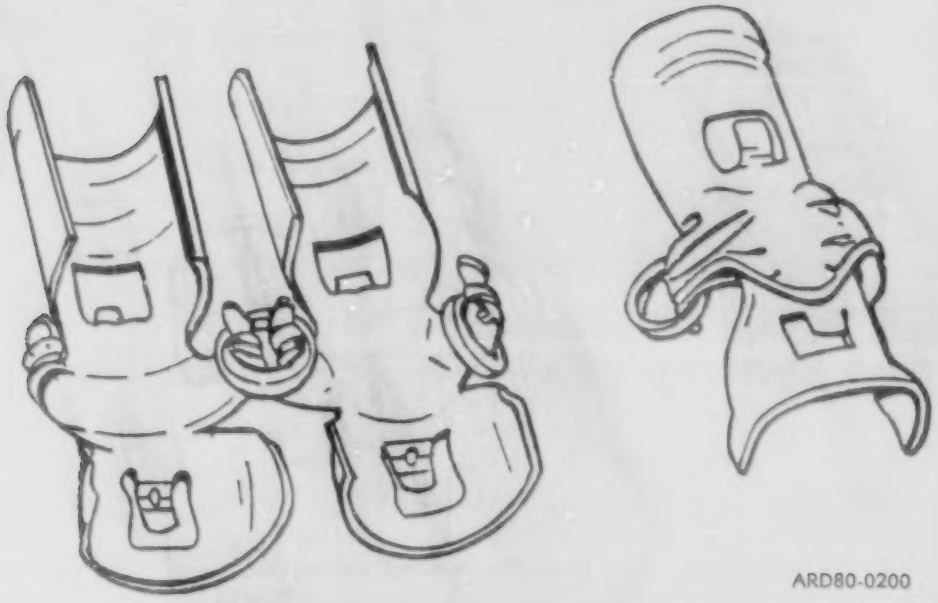


Figure 2-10. M12 link for 20mm cartridges.

(3) *M14A2 link.* The M14A2 link (fig 2-11) is used primarily for linking 20mm ammunition for belt-fed M61 automatic guns and loading of ammuntion into linkless feed systems used in aircraft and ground defense vehicles. The links are self-separating when cartridges are removed during feeding cycle.

(4) *M17A2 link.* The M17A2 link (fig 2-12) is used for linking 20mm ammunition for belt-fed M61 automatic weapon system in the B52 G & H aircraft. The links are self-separating when cartridge is removed from link during feeding cycle.

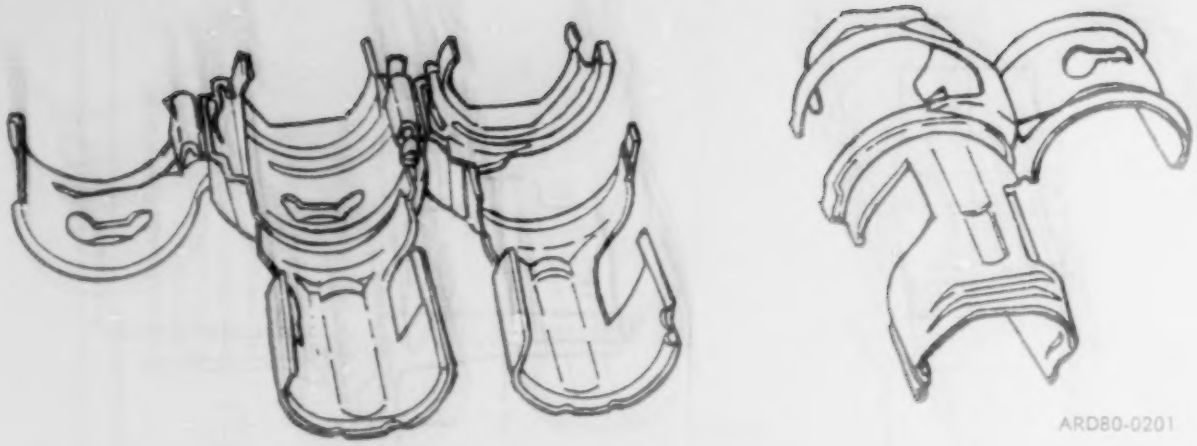


Figure 2-11. M14A2 link for 20mm cartrridges.

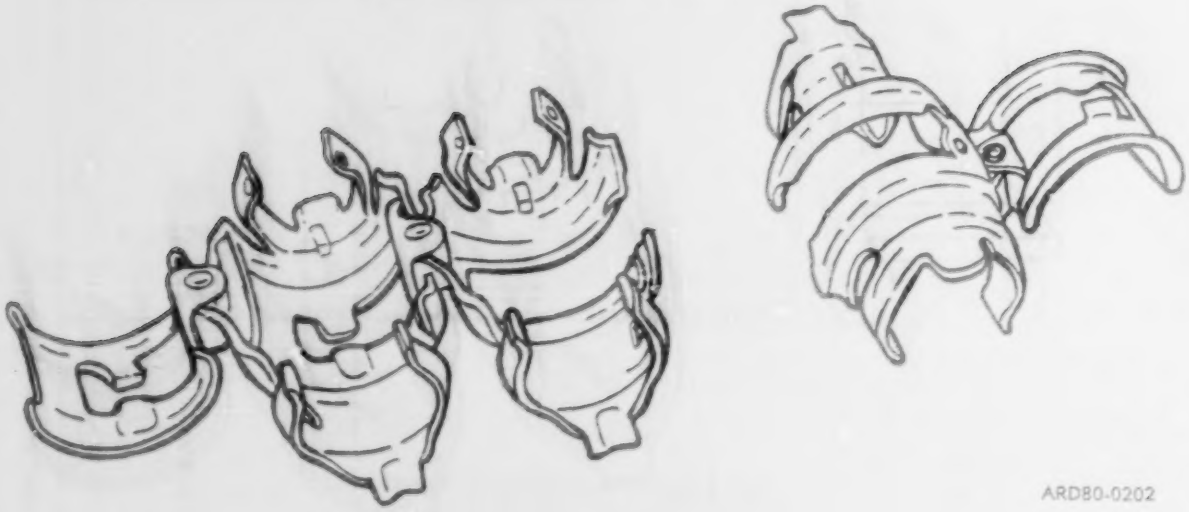


Figure 2-12. M17A2 link for 20mm cartridges.

(5) *M24 link.* The M24 link is a metallic link for use with the following 20mm cartridges: target-practice tracer M206A1, high-explosive incendiary tracer M599, and armor-piercing incendiary tracer M601. The European (German) DMI/DMIA links are also used for these cartridges. The DMI/DMIA link is used with the HSH20 Series.

(6) *M22 link.* The M22 link is for U.S. Air Force use only. It is used to upload their linkless system. It is reusable and does not disintegrate.

(7) *The M28 25mm Cartridge Link* is a two-piece assmebly (fig 2-13) intended to hold and link the 25mm ammunition for guiding the ammunition through the weapon system. This assemble consists of hardened steel main and pivot links hooked together and contoured accordingly for its intended purpose. The Swiss Gerlikon link and the M28 are dimensionally identical.

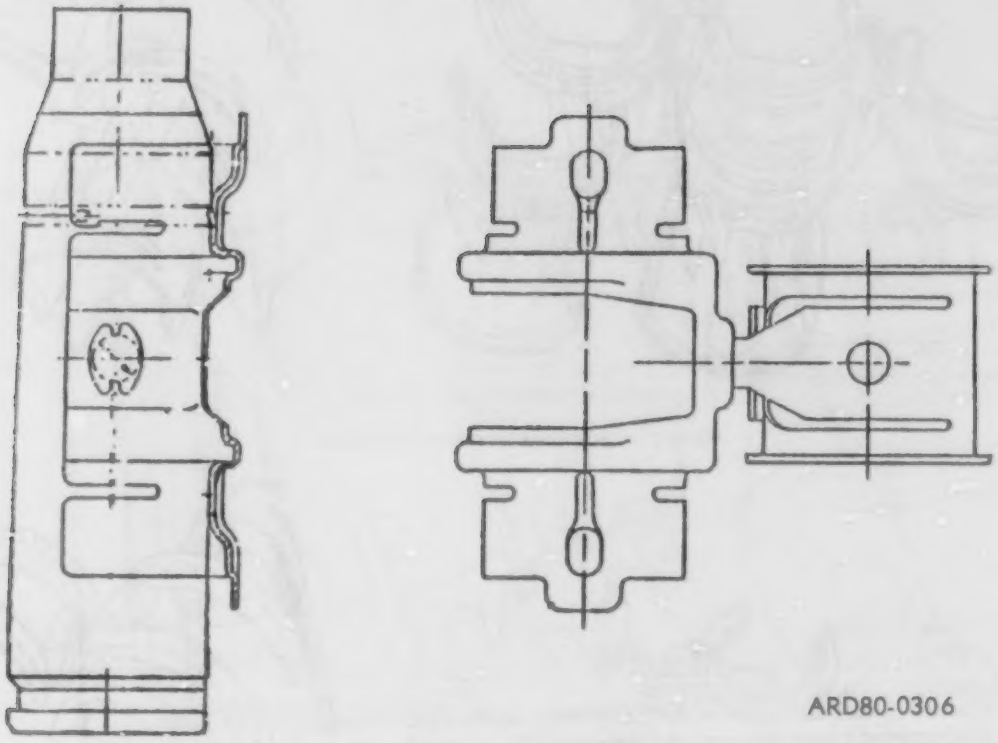


Figure 2-13. M28 link for 25mm cartridges.

Table 2-2. Small Arms Accessories

Caliber	Ammunition	Clip	Magazine	Link	Weapon used
5.56mm	Ball M193 Tracer M196 Grenade M195 Dummy M199 Blank M200 High Pressure Test, M197 M855 M856 M862	10rd	20 & 30 rd	M27	M231 Sub Machine Gun for M196 tracer only. M16/M16 1 rifle. Stoner M63 (Navy and M249 machine guns). M16A2 rifle and M249 MG M16A1 w/D2 Bolt System
7.62mm	Ball M59 Ball M80 Tracer M62 AP, M61 Dummy 63 Blank M82 High Pressure Test M60	5 rd	20 rd	M13 open loop for MG	M14 rifle; M60, M73, M219, M240*, and M134 machine guns.
	Grenade M64 Dummy M172 Frangible M160 Ball match M118				M14 rifle only. M60 MG only. M219 MG only. M14 rifle only.
			NOTE 10 rd clip f/M16A1. 5 rd clip f/M14. 20 rd mag f/M16A1. 30 rd mag f/M16A1. 20 rd mag f/M14.		
9mm	Ball M882 High Pressure Test M905	N/A	15 rd	N/A	M9 pistol
Cal .45	Ball, M 1911 Blank, M9 High Pressure Test M1	7 rd f/ pistol	30 rd for sub-machine gun	N/A	Pistol M1911 & M1911A1. Sub machine gun M3 & M3A1.

*M240 Machine Gun only fires the Ball M80 and Tracer M62.

Table 2-2. Small Arms Accessories—Continued

Caliber	Ammunition	Clip	Magazine	Link	Weapon used
Cal .50	Ball, M2 Ball, M33 AP, M2 API, M8 API-T, M20 Incend M1 Incend M23 Tracer M1 Tracer M10 Tracer M17 Dummy M2 High Pressure Test Blank M1 Plastic Practice M858 Tracer, Plastic Practice M860	N/A N/A 	N/A N/A 	**M15A2 Open loop w/M8 MG ***M9 & M2 closed loops w/M2 MG.	M8 Machine Gun. M2 Machine Gun only.
	Spotter-Tracer —M48A2	5 rd	--	M15A1	Rifle, spotting M8C
	Spotter-Tracer T249E2	5 rd	--	M15A1	Rifle, spotting M8C
	Spotter-Tracer M251	5 rd	--	M15A1	Rifle, Spotting M8C

NOTE
**Link M15A2 Open Loop used w/M8 Machine Gun only.
***Link M2 and M9 Closed loop used w/M2 Machine Gun only.

Caliber	Ammunition	Link	Weapon (Gun)
20mm	HEI-T-SD, M246 HEI, M56A3, M56A4 TP-T, M220 TP, M55A2 Dummy, M51A2	M14 series	M167A1 (M168 Cannon)
20mm	API-T, M52E1 API, M53 HEI, M56A3, M56A4 HEI-T, M242 HEI-T-SD M246 TP, M55A2 TP-T, M220 Dummy, M51A2	M12 Metallic Link for M39 cannon. M14A2 for M61 cannon.	M39, M61

Table 2-2. Small Arms Accessories—Continued

Caliber	Ammunition	Link	Weapon (Gun)
20mm	API-T, M52E1 API, M53 HEI, M56A3, M56A4 HEI-T, M242 HEI-T-SD M246 TP, M55A2 TP-T, M220 Dummy, M51A2	M17A2	M61
20mm	API, M53 HEI, M56A3, M56A4 TP, M55A2 Dummy, M51A2	M14A2	M195 Linker-Delinker M25.
20mm	HEIT-SD, M246 HEI, M56A3, M56A4 TP-T, M220 TP, M55A2 Dummy, M51A2	M14A2	168, 197
20mm	AP-T, M95 Incendiary, M96 TP, M204 HEI, M210	M10	M3
20mm	AP-T, M95 Incendiary, M96 HEI, M97A2 TP, M99A1	M10	M24A1
20mm	HEIT, M599 API-T, M601 TI -T, M220	M24 or DMI/DMIA	139
25mm	API-T, M791 HEI-T, M792 TP-T, M793	M28	M242
30mm	HEDP, M789 TP, M788 HEI, M799	M29	M230

CHAPTER 3

MAINTENANCE INSTRUCTIONS

Section I. SERVICE UPON RECEIPT OF MATERIEL

3-1. General

a. In general, small-arms ammunition is packed in either watertight metal liners, plain or wax sealed cartons, metal-foil envelopes, hermetically sealed cans, or in metal boxes having hinged covers sealed by means of a rubber gasket. These containers are overpacked in cleated wooden boxes or wirebound wooden boxes, Dependent upon the intended use, the ammunition within the immediate container may either be bulk packed in cartons or functionally packed in clips in bandoleers or in link belts.

b. The containers and methods for packing small-arms ammunition are given in appropriate supply manuals. Containers presently being manufactured have been reduced to a few standard types designed to withstand all conditions commonly encountered in handling, storing, and transportation of ammunition.

c. Packing containers for small-arms ammunition are listed in appendix C. Box components (fig 3-1), which are classed as hardware, such as wingnuts and screw hooks, are listed in supply manuals covering FSC group 53. Cartridge clips, cartridge links, and bandoleers, used for functional packs, are listed in appendix C.

d. Each outer shipping container and all inner containers down to the smallest unit container are fully marked to identify the ammunition contained therein. These markings include the National stock number, descriptive nomenclature of the ammunition included, ammunition lot number, and the number of rounds (figs 3-2 and 3-3). In addition to the above, the outer shipping container also is marked with the National stock number, Department of Defense identification code, Department of Transportation shipping name, weight, cube. The salee closer (fig 3-4) was used to bind the wire loops which was used to close the wirebound box.

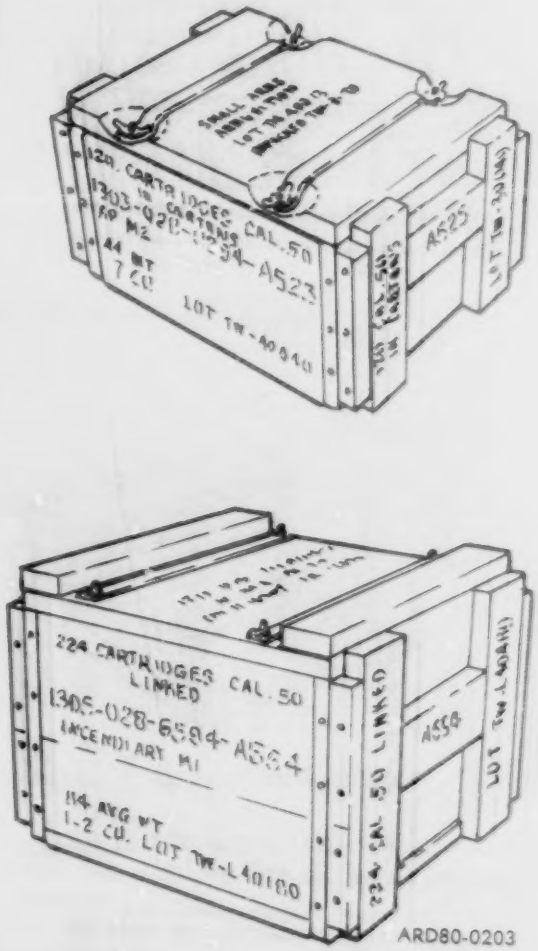


Figure 3-1. Packing-boxes small-arms ammunition.

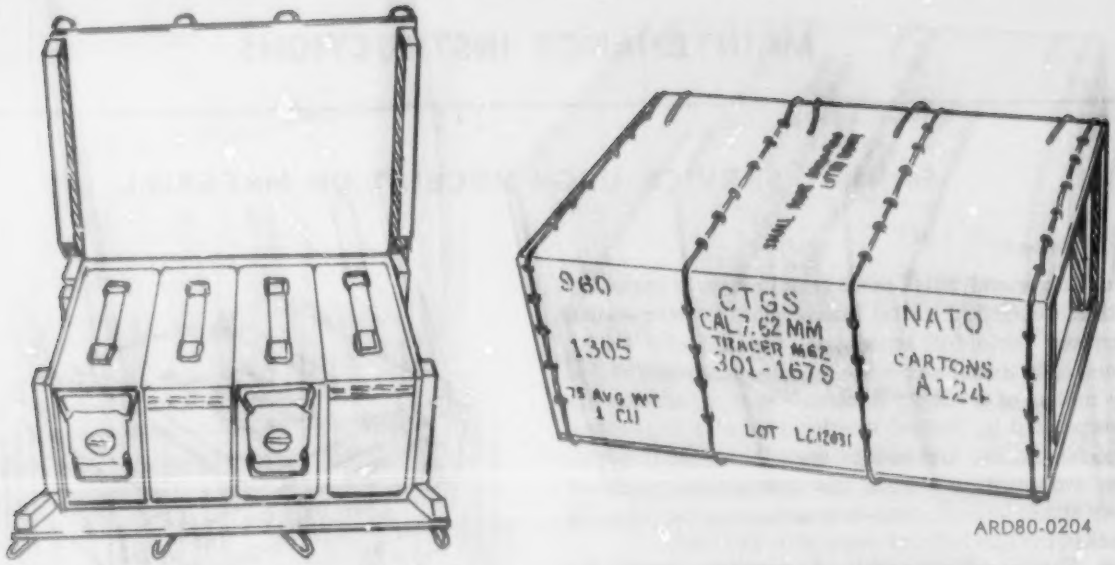


Figure 3-2. Wirebound box with 7.62mm ammunition in metal containers M19A1.

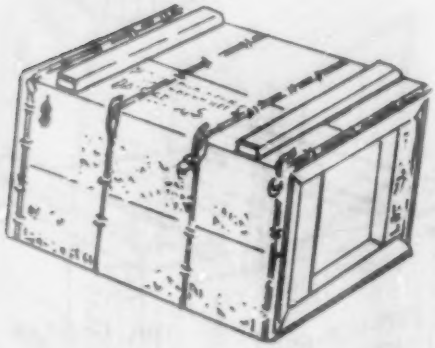


Figure 3-3. Typical wirebound box.

e. Metal boxes and cans are painted olive drab and marked in yellow. Some outer containers are stained light brown and marked in yellow. Those of current manufacture are unstained and marked in black. Specific lots when selected for rifle or pistol match requirements will be marked "MATCH" on the nomenclature side and top of outer shipping containers. Boxes containing functionally packed ammunition (ammunition packed in rifle clips, or link belts) have figure symbols stenciled on the container for quick identification of the type of inner pack (fig 3-5).

f. Upon receipt of ammunition, verify each packaged item against the requisition list. If marking on packaging conflicts with nomenclature on requisition, check with ammunition supply personnel to determine if an issue error has been made.

g. Unless packing boxes show evidence of moisture or damage to the extent that contents may be unusable, do not open until cartridges are to be used.

3-2. Precautions

WARNING

Avoid injury from sharp edges when cutting and handling metal strapping. The end of the band may fly up suddenly when tension is released.

a. Limit the quantity of ammunition and flammables at work site to the minimum necessary for efficient operation.

b. All standard precautions for care and handling of ammunition are applicable to small arms ammunition.

3-3. Unpacking Procedures

a. Inspection.

(1) Inspect markings on packaging for legibility of lot number. If illegible, open box, note lot number stencilled on inner pack or item and restore illegible numbers.

(2) Visually inspect each box/container for damage or indication that the contents may be damaged.

(3) Unpack only as far as necessary to determine the serviceability of the materiel.

(4) If outer box or container is damaged beyond repair, transfer contents to a serviceable box or container, mark accordingly and give priority of issue.

(5) If necessary, visually inspect each item according to procedures in paragraph 3-14.

WARNING

Use gloves or a rag to hold strap near the end where it will spring loose when cut. Cut straps with metal cutting shears. Remove boxes/containers/ammunition from pallet. Dispose of strapping and nonrecoverable materials. Return serviceable pallets and components to ammunition supply.

b. Wood Boxes with Metal Hardware.

(1) Cut steel strapping with metal cutting shears.

(2) Remove and dispose of straps.

(3) Gloves must be worn.

WARNING

To prevent injury, release tension by pressing down on top of box while cutting straps on side of box. Cut lead seal wire with pliers and remove. Turn catch and open hasp, or pull out on spring-latch to release. Lift box top to open. On spring-latched boxes, note position of top for guidance in repacking. Remove top padding/filler (if any) from box. Remove inner pack(s).

c. Wirebound Boxes.

(1) Cut lead seal wire with pliers and remove.

(2) Bend wire loops up straight using a salee closer (fig 3-4), screwdriver, or pliers.

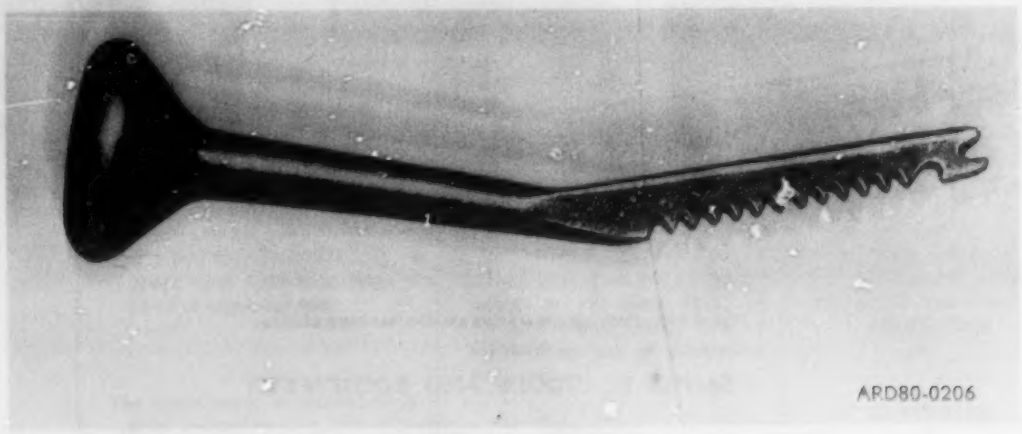


Figure 3-4. Salee closer.

(3) Lift lid panel to open box.

(4) Remove top packing (if any) from box.

(5) Remove inner pack(s).

d. Metal Containers.

(1) Cut lead seal wire with pliers and remove.

(2) Turn locking bar counterclockwise to loosen end cap. Use pry bar to loosen locking bar, if necessary.

(3) Remove container end using twisting pulling motion.

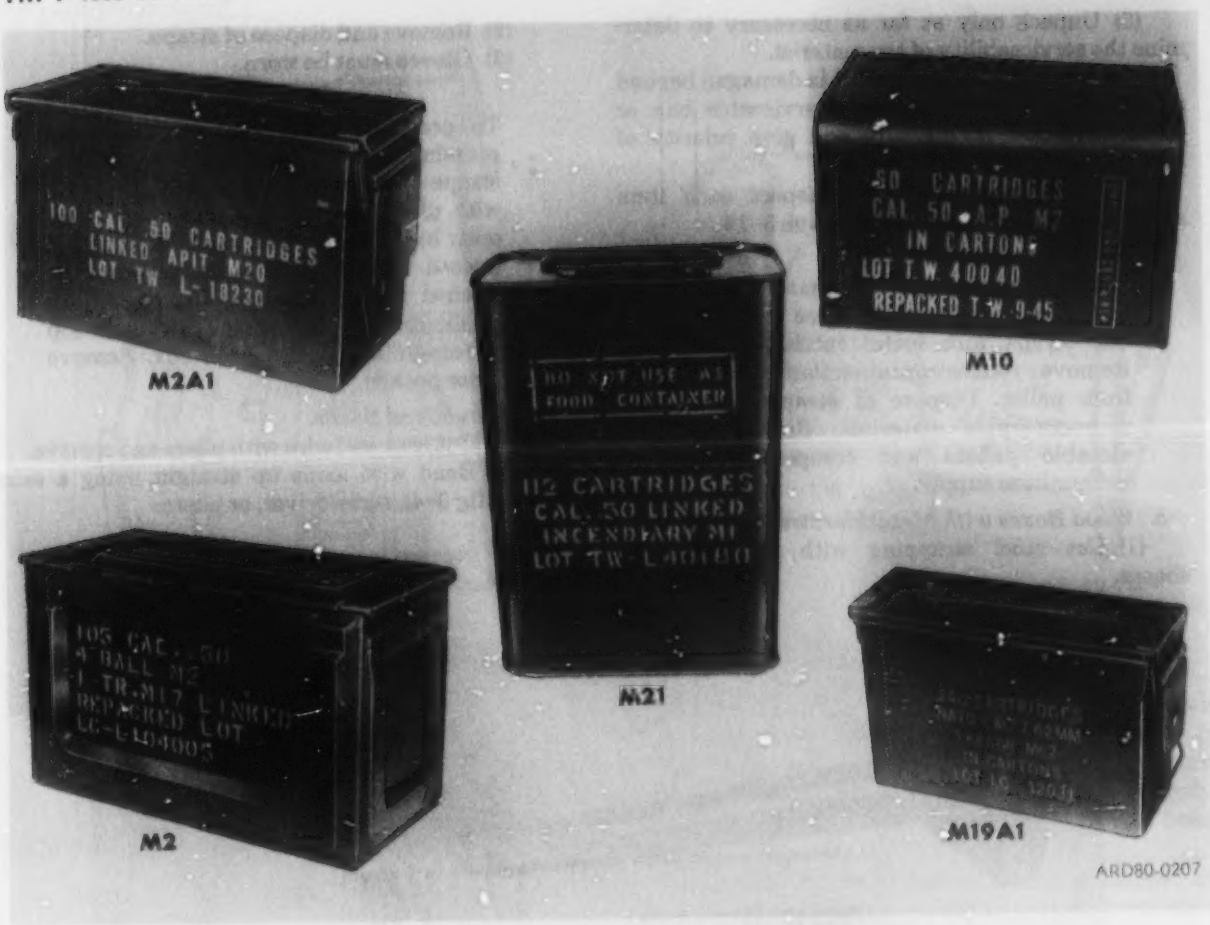


Figure 3-5. Packing containers small-arms ammunition.

Section II. TOOLS AND EQUIPMENT

3-4. Common Tools and Equipment

Standard and commonly used tools and equipment having general application to this ammunition are authorized for issue tables of organization and equipment (TOE).

3-5. Repair Parts and Special Tools

Repair parts and special tools required a organizational level are listed in appendix C.

Section III. MAINTENANCE

3-6. General

a. Maintenance at the organizational level is performed by designated personnel in using units. Its purpose is to prevent further deterioration of ammunition which has been exposed to rough handling o. adverse weather conditions. Direct support units may be called upon to provide technical assistance and packaging materials.

b. Responsibilities for maintenance are limited to those functions specified in appendix B, Maintenance Allocation Chart (MAC). Only maintenance operations for which procedures are given in thi manual or in the weapon operator's manual ar authorized.

c. Maintenance shall be performed at least 90 fee from any ammunition magazine or storage shelter.

d. Remove ammunition from packaging befor performing maintenance on packaging materials.

3-7. Expendable Materials

a. Paint, cleaning compounds, and other ex pendable materials authorized for use b

organizational maintenance personnel are listed in appendix D.

b. Expendable materials should be requisitioned through normal channels on an as-required basis.

3-8. Inspection of Packaging

a. Inspection. If receipt inspection or storage inspection of packaging reveals damage or deterioration to the extent that serviceability of the ammunition is questionable, unpack ammunition (using procedures in paragraph 3-3) and visually inspect inner packs and/or items. Unpack only as far as necessary to determine serviceability.

b. Packaging Defects. Specific inspection criteria and identification of defects (as acceptable, repairable or irreparable) are outlined in table 3-1. The most commonly encountered packaging defects are listed below:

(1) Outer containers (boxes damaged, weathered, or rotted to the extent contents are not protected.

(2) Inner container damaged to the extent contents are not protected or cannot be readily removed.

(3) Container cap or closure insecure to the extend contents are not protected.

(4) Inner containers wet (except metal), rusted, moldy or mildewed.

(5) Hardware or banding loose, missing, broken, or ineffective.

(6) Handle or cleat missing or broken.

(7) Contents loose to the extent item may be damaged in handling.

Table 3-1. Inspection Criteria for Packaging

Wooden boxes and crates			
Component	Acceptable	Repairable	Irreparable at organizational level
Hardware	Operative and tight. Nails, screws and fasteners present and in good condition.	Inoperative or loose. Nails, screws, and fasteners which can be replaced or properly sealed.	None. None.
Ends	Free from damage.	Broken or missing cleats and handlers.	Damage which requires disassembly of box.
Wood	Splits less than 3-inches long no closer than 1 inch to edge of board or adjoining split. The board must be secured by at least one nail on each side of the split when it extends to the end of the board.	Splits over 3 inches but no closer than 1 inch to edge of board or adjoining split, or 1/4-inch wide, which can be repaired by use of corrugated fasteners.	Splits closer than 1 inch to edge of board or adjoining split or over 1/4-inch wide.
	Warping which does not prevent sealing of box or insertion of required ammunition.	None	Warping which prevents insertion or removal of rounds and/or sealing of the box.
	Light mold which can be brushed off.	None	Excessive mildew and mold which cannot be removed and which render markings illegible.
	Sound tight knots the diameter of which do not exceed 1/2 the width of the board.	None.	Holes or loose knots which exceed 1-1/2 inches in largest diameter or 1/2 width of board.
	Skids securely attached to box or crate. Knots no greater than 1/4 the width of skid.	Loose skids.	Knots greater than 1/4 the width of skid.
Strapping	Present and unweakened by rust or distortion.	Missing, rusted or distorted.	None.
Body	Dents less than 1/4 inch deep.	Dents deeper than 1/4-inch which may be removed without weakening structure of container.	Dents which impair the structural integrity of the material, or prevent removal of contents.

Table 3-1. Inspection Criteria for Packaging—Continued

Component	Acceptable	Repairable	Irreparable at organizational level
Wooden boxes and crates			
Body—Continued	Flanges which are bent but do not prevent placement or removal of cover with normal hand pressure.	Flanges which can be straightened to allow placement and removal of cover with normal hand pressure.	Flanges which cannot be straightened.
	Tight seams which prevent entrance of moisture.	None.	Loose or leaking seams.
	Free from rust.	Minor rust which can be removed.	Rust which has caused pitting and perforations.
	Free from perforations.	None.	Perforated.
	Supports which are integral to container present and in-serviceable condition.		Damaged supports which are integral to container.
Caps and covers	Dents which do not prevent cover from closing.	Dents which can be removed.	Dents which cannot be removed and/or prevent assembly to body.
	Free from rust.	Minor rust which can be removed.	Rust which has caused excessive pitting.
	Free from perforations.	None.	Perforated.
	Gaskets present and sufficiently serviceable to make container air tight in single round metal containers and to make metal containers for propelling charges air tight.	Missing or damaged gaskets.	None.
Metal boxes			
Body and cover	Free from rust.	Minor rust which can be removed.	Extensive pitting and rust.
	Tight seams.	Repair not practical.	Split seams.
	Dents less than 1/4 inch deep.	Dents deeper than 1/4 inch which may be removed without weakening structure of container.	Dents which impair the structural integrity of the material.
	Unperforated.	None.	Perforated.
	Separators integral to container serviceable, allowing easy insertion and removal of contents.	None.	Missing or broken separators.
	Gaskets present and sufficiently serviceable to insure moisture-proof pack.	Damaged or missing gaskets.	Not applicable.

3-9. Inspection of Ammunition

a. Material Defects. Specific defects (identified as acceptable, repairable or irreparable) and inspection criteria are outlined in table 3-2.

b. Corrective Action.

(1) Acceptable ammunition to be repackaged using procedures in paragraph 3-14.

(2) Ammunition to be cleaned—clean flaked or blistered coating and touch up paint following procedures in paragraph 3-10.

c. Disposition of Irreparable Items. For dirposition of irreparable ammunition, contact the next higher maintenance level. Contact EOD personnel for disposition of ammunition items considered to be hazardous.

Table 3-2. Inspection Criteria for Ammunition

Item	Acceptable	Reparable	Irreparable
Projectiles (20mm, 25mm and 30mm calibers)			
Markings	Legible and correct.	Illegible, correct data available for remarking.	Correct data cannot be determined.
Paint	No scratches, peeling or blistering.	Scratches, peeling or blistering in spots.	Scratches, peeling or blistered requiring complete repaint.
Body	Free from rust.	Minor rust that can be removed with corrosion removal compound, sandpaper or wire brush.	Extensive rust that cannot be removed with corrosion removal compound or sandpaper or with wire brush.[1]
Metallic cartridge case			
Marking	Legible.	Missing, illegible incorrect or misleading & correct data is available for remarking.	Correct data cannot be determined.
Body	Light corrsoion.	Minor scratches, rust or corrosion which can be removed w/fine sandpaper or steel wool, or corrosion removal compound.	Severe corrosion, rust or scratches which cannot be removed w/sandpaper or steel wool.
	Minor scratches in coating. Minor dents.	None.	
Body and base	Minor cuts, scratches and dents.	None.	Severe cuts, tears and dents where propellant is exposed. Oil and water damage.

[1]Any discernible degree of etching appearing in a stained area will be reclassified and penalized as corrosion. Refer to MIL STD 651.

3-10. Cleaning and Touch-Up Ammunition

WARNING

Primers shall be cleaned only with rags dipped in alcohol or acetone. Primers shall be covered with fiber container cap during cleaning, touch-up of ammunition.

a. Cleaning.

CAUTION

Rags shall be stored in noncombustible self-closing containers. Wastes or used rags shall be placed in water filled containers. Areas will be well ventilated where solvents and paints are used.

(1) Remove dirt, mud, and other foreign material using rags or brushes. Use rags dampened with alcohol or acetone to remove grease.

(2) Using nonferrous brush, remove flaked, chipped, blistered, or peeling paint.

(3) Remove rust using nonferrous brush or sandpaper.

(4) Clean corrosion from aluminum or copper-based metals by first brushing with a nonferrous brush and then removing residue with rags and corrosion removing compound.

(5) Inspect cleaned item for cracks or other damage or deterioration.

b. Touch-Up.

(1) Use masking tape to cover existing markings which are in good condition.

(2) Use brush, cover bare metal with primer and allow to dry.

(3) Use brush, paint primed area with two coats, allowing first coat to dry before applying second.

(4) After paint has dried, remove masking tape.

3-11. Defects Found on Visual Inspection

a. Small arms cartridges will be given a pre issue inspection prior to issue. The cartridges in a minimum of three boxes from each lot, depending on the size of the lot, will be inspected for physical defects. Lots having more than 5 percent defective cartridges will be subjected to 100 percent inspection if authorized by higher authority, and visually defective rounds will be culled out. Ammunition having less than 5 percent visually defective rounds may be issued without further inspection. The defects in table 3-2 may be found in cartridges during inspection.

b. The following defects may be foumd in belted ammunition for use in machine guns:

(1) The cartridges are not properly aligned in teh belts.

(2) There is an improper proportion or spacing of incendiary and/or tracer ammunition with ball ammunition.

(3) Cartridge links in link belts may have broken, cracked, or stretched loops.

(4) Link belts not packed with double loop on top.

Table 3-3. Defects Found on Visual Inspection

Name of defect	How to recognize	Causes—effects—precautions
Cartridge Short Bullet	Bullet seated too deep.	Not serious unless it is so deep as to affect density of charge and chamber pressure. May not function machine-gun.
Cartridge Case Corrosion. (fig 3-6)	Coloring of cases, (green, blue, yellow, or white colors). Also appearance of chemical deposit. Not to be confused with normal discoloration or blackening of case due to annealing.	Metal eaten into and weakened will cause rupture when cartridge is fired. Deposit interferes with chambering. Cartridges showing advanced corrosion should not be fired.
Season Crack	Split in neck of case. Definite longitudinal cracking when exposed to severe weathering conditions or certain reagents. Check by pressing diagonally down on the bullet end.	Due to distortion of the normal curystaline structure of the metal as a result of drawing or tapering operations (not to be confused with split necks occurring after firing).
Dent and Burr	Indentations and burring.	Rough handling. Dangerous pressure only if dent is large. Cartridges may fail to chamber.
Bullet	Bullet is loose in case. A defect if bullet can be moved by twisting, pushing, or pulling while cartridges is held in hand (exception-caliber .22 long rifle).	May cause short round stoppage or bullet may remain in bvre if cartridge is removed from gun without firing. Should not be fired.
Split Bullets (tracer).	Longitudinal cracks in the bullet.	Do not use for overhead fire, i.e., in filtration courses, etc.

Figure 3-6. Corrosion on primers and cartridge case.

3-12. Maintenance of Packaging Hardware

a. Repair of Damaged Hardware. Hardware which has been damaged to the point that it is inoperable is usually irreparable; however, minor damage can usually be corrected by straightening, as follows:

(1) Using pliers carefully, bend damaged item until its configuration is the same as the serviceable item.

(2) Test repaired hardware for proper functioning.

b. Replacement of Irreparable Hardware. Hardware which cannot be repaired can be replaced with a serviceable item cannibalized from an unserviceable container, as follows:

(1) Using a screwdriver, remove unserviceable hardware.

(2) Attempt to reinstall serviceable hardware in existing holes. Secure with screws.

(3) If screws are missing or cannot be tightened in existing holes, proceed as follows:

(a) Replace missing screws with others obtained from an unserviceable box.

(b) If screws cannot be tightened, move hardware (with box top in place) to a different location where screws can be secured. If necessary, carve notch to accommodate hinge pin.

(c) Mark location for attaching screws and remove hardware.

(d) Drive and remove a small nail at each location to provide a pilot hole.

(e) Place hardware and screws in position and secure.

c. Removing Rust or Corrosion from Hardware.

(1) Remove rust and corrosion from hardware by first brushing with a wire bursh or use corrosion removing compound.

(2) Cover with primer or paint.

d. Replacing Broken, Loose, or Deteriorated Strapping.

(1) Cut pieces of 5/8-inch banding of sufficient length to go around box plus about 6 to 8-inches.

(2) Position strap(s) under box.

(3) Insert one strap end into strap stretcher so that strap is held firmly by stretcher, with about 3 inches of strap protruding.

(4) Place clip over strap end.

(5) Thread loose end of strap through clip and into stretcher head.

(6) Tighten strap by repeated movement of ratchet lever, until edges begin to cut into box.

(7) Using banding crimper, crimp clip in two places.

(8) Release locking pawl on stretcher and slide stretcher out.

(9) Cut off excess strapping.

(10) Repeat (3) through (9) above, for each strap.

3-13. Maintenance of Packaging Containers and Materials

a. Repair of cracks and splits in Wood.

(1) Hold board tight so that the crack or split is closed.

(2) Hammer corrugated fasteners into wood at

4 to 6-inch intervals. Fastener should be centered across crack.

b. Repair of Broken Cleats or Wood Handles.

(1) Remove broken cleat with claw hammer or pry bar.

(2) Remove serviceable cleat with claw hammer or pry bar from an otherwise unserviceable box.

(3) Position serviceable cleat on box and secure with 3 to 5 small nails.

(4) Bend nails over inside of box with hammer.

c. Repair of Rope or Strap Handles.

(1) Remove cleats holding handle with claw hammer or pry bar.

(2) Remove serviceable handle from an otherwise unserviceable box by removing the holding cleats with claw hammer or pry bar.

NOTE

Do not remove nails or staples attaching handle to cleats.

(3) Position serviceable handle and cleats and attach to box with 3 to 5 nails in each cleat.

(4) Bend nails over inside of box with hammer.

d. Painting of Wood Boxes. Normally, used boxes will not be painted except to obliterate previous markings or to indicate less than full pack.

e. Painting of Metal Boxes.

(1) Remove dirt, mud, and other foreign material from boxes using wire brush and/or rags dipped in detergent-water solution. Use rags dipped in alcohol to remove grease.

(2) Using wire brush, remove flaked, chipped, blistered, or peeling paint.

(3) Remove rust and corrosion using a wire brush and sandpaper or rages and corrosion removing compound.

(4) Cleaned surfaces to be thoroughly dried.

(5) Cover existing markings, if applicable, with masking tape.

(6) Using spray can or brush, cover bare metal with primer and allow to dry.

(7) Using spray can or brush, paint primed area with two coats allowing first coat to dry before applying second.

(8) Remove masking tape, where applied.

(9) Mark box as required.

f. Markings on Outer Box. The following information must be legible on each box:

Nomenclature
National stock number
(Including DODIC)
Lot number
Date of manufacture
Quantity

NOTE

Box will have DODIC and Lot Number.

g. Markings on Inner Container. The following information must be legible on each inner container:

Nomenclature
DODIC
Lot number
Quantity
Weight Zone

h. Restoration of Markings.

(1) Carefully observe information and location of markings on packaging of like item.

(2) Using waterproof ink marker, china marking pencil or small brush and paint, restore markings which are faded, obliterated during cleaning, or painted over.

(3) Check markings for accuracy and allow to dry.

(4) Repack ammunition following procedures in paragraph 3-14.

3-14. Repacking Procedures

NOTE

Boxes and packaging materials are normally available for reuse after ammunition is fired. If not available in using organization, requisition required items. Refer to appendix C (Repair Parts and Special Tools List) for most recent packaging information and appendix E for packing and marking data.

a. General.

(1) Always repack ammunition in serviceable packaging containers (fig 3-7 through 3-10).

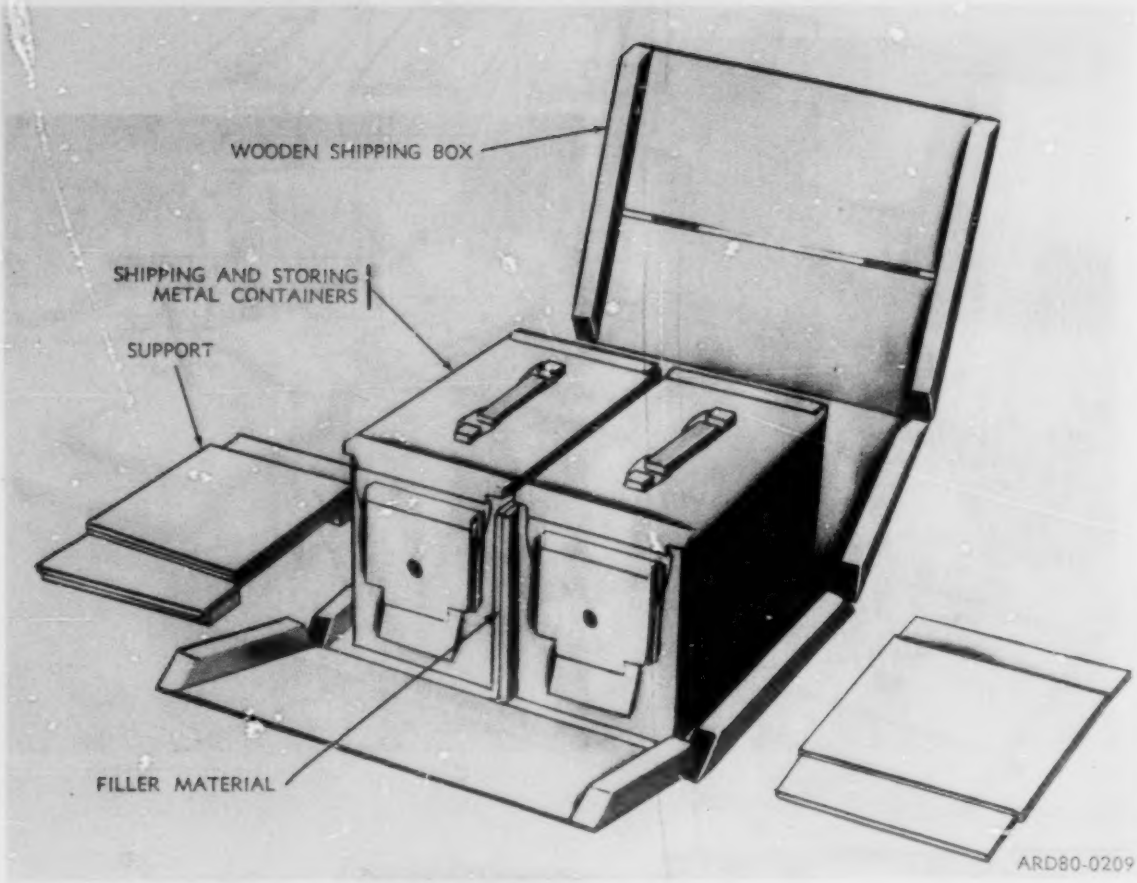


Figure 3-7. Packing wirebound boxes.

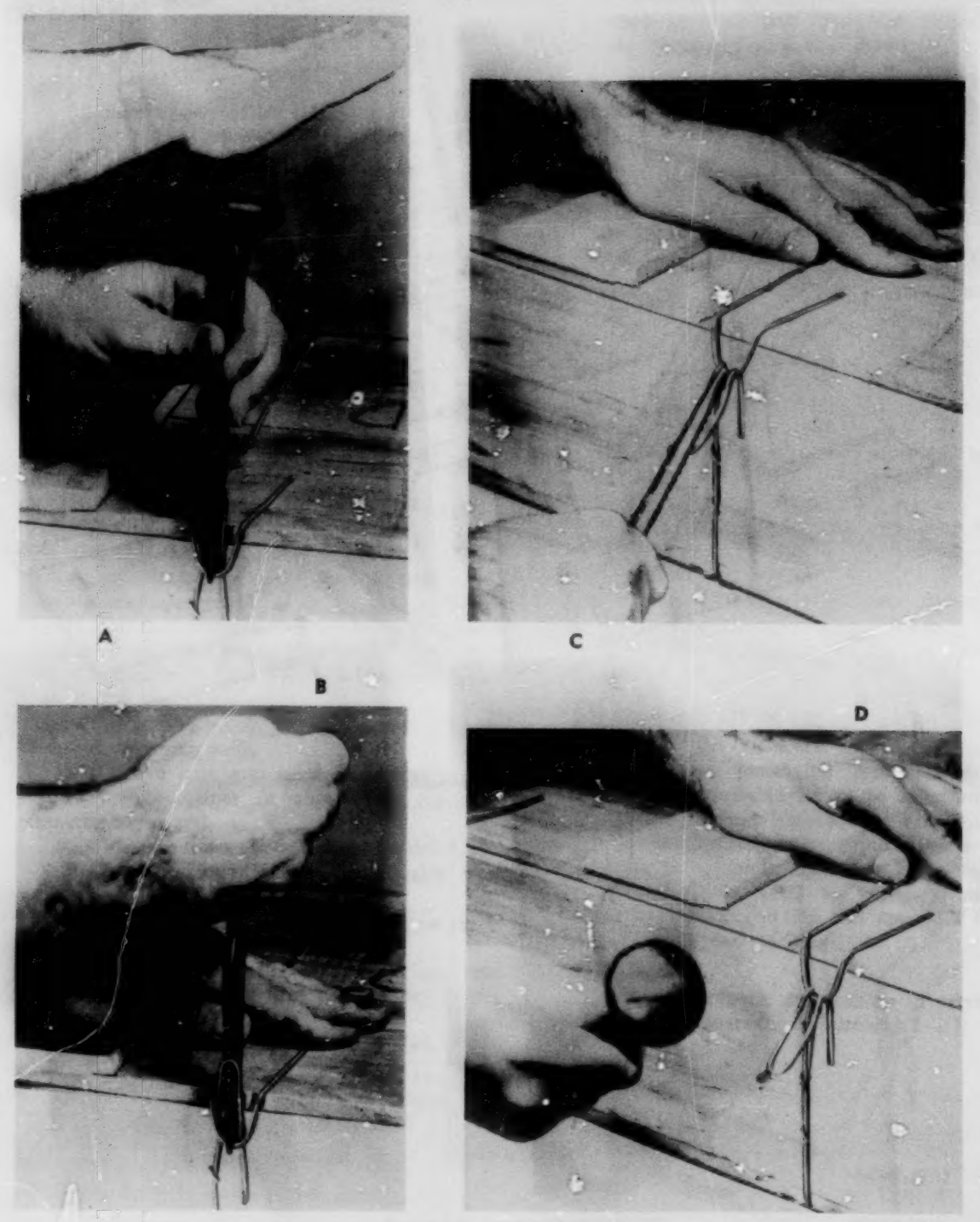


Figure 3-8. Closing wirebound box.

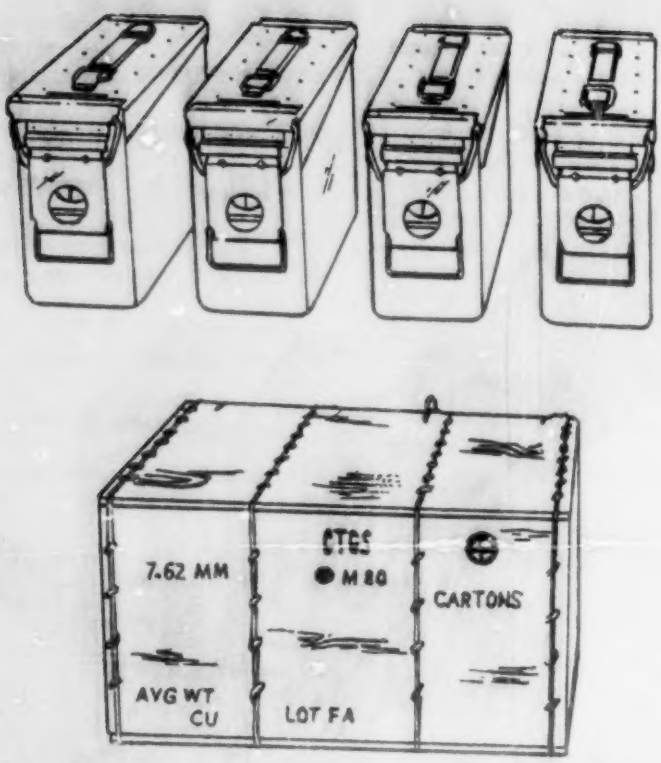


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Figure 3-9. Four M19A1 ammunition boxes and wirebound box.

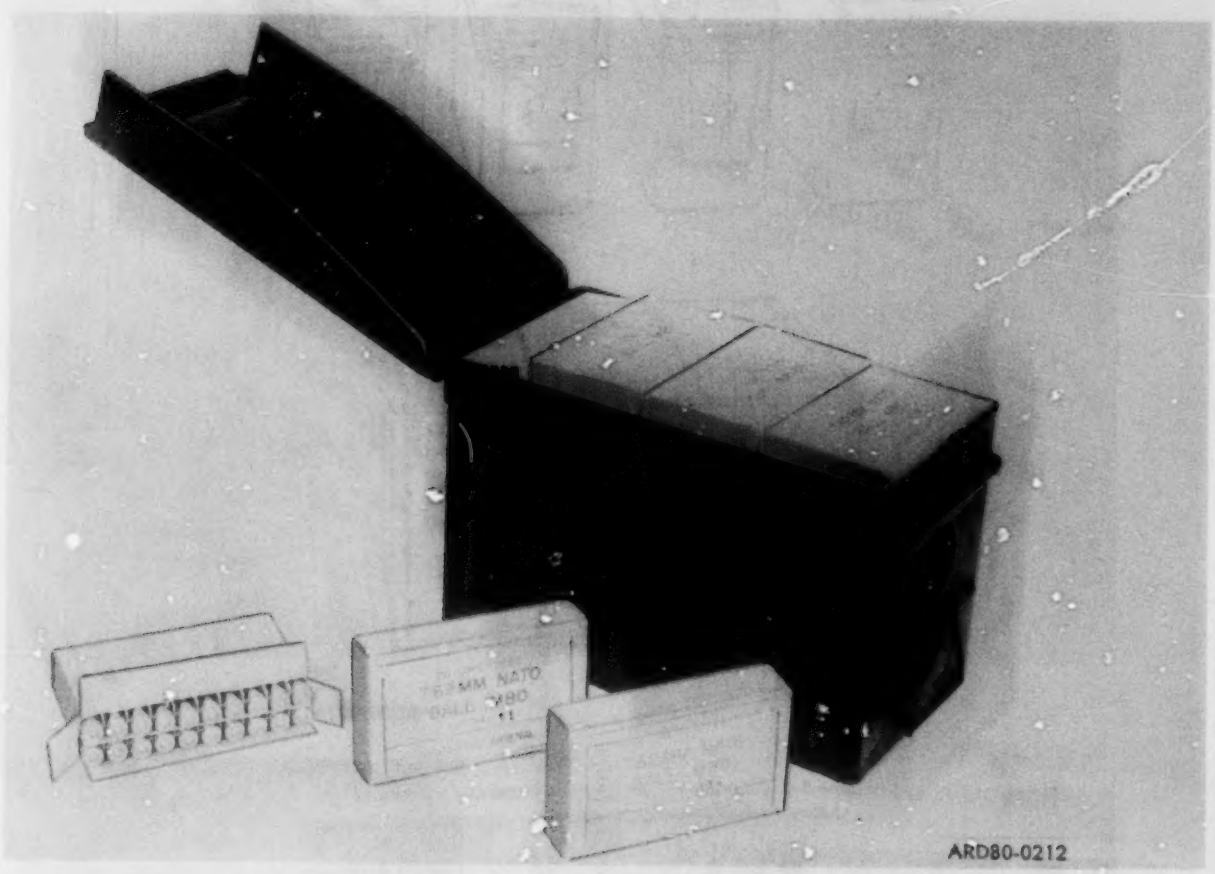

Figure 3-10. Cartridges in 20-round cartons in ammunition box.

(2) Select packaging components from those for similar ammunition items.

(3) Use filler pads as required for a tight pack.

(4) Re-mark package as necessary to assure proper markings.

b. Metal Container.

(1) Place item in container so that it is firmly seated in filler materials.

(2) Cover any sensitive parts such as primers, with padding.

(3) Place top on container.

(4) Seal with plastic filament tape or black nylon tape by wrapping joint in a double layer and folding edges over top.

c. Metal Box (M2A1, etc.).

(1) Inspect gasket on top of box to assure a good seal.

(2) Place lower filler materials into box.

(3) Insert item(s) in space(s) provided.

(4) Add other filler materials as required.

(5) If top has been completely removed, line up hinge slots on top with hinge pins on box and slide top onto box.

(6) Close top firmly.

(7) Place short end of locking lever under lock lip.

(8) Push down and in on locking lever until it snaps against box.

d. Metal Box with Latches.

(1) Inspect gasket in top of box to assure good seal.

(2) Place filler material in bottom of box, as necessary.

(3) Place inner pack(s) in box. Use filler material or empty containers when box is not full.

(4) Place padding or filler material over inner pack(s).

(5) Position top on box.

(6) Snap latches shut to secure top.

(7) Secure latches with wire.

e. Wing-Nut Fastener Box.

(1) Place inner pack(s) in box. Position items to balance load for carrying.

(2) Use padding or empty containers as filler material if box is not full.

(3) Place end cover over tie rod(s) and push into place.

(4) Place a large washer over each tie rod.

(5) Screw wingnut onto tie rod and tighten firmly.

f. Spring-Latch Box.

(1) Place inner pack(s) in box. Position items to balance load for carrying.

(2) Use padding or empty containers as filler material if box is not full.

(3) Position top so that hinge fits into hinge slot on box.

(4) Close top.

(5) Hook latch onto latch tab.

(6) Press down on latch until it snaps tight.

(7) Secure latch with wire.

g. Hasp and Hinge Box.

(1) Place inner pack(s) in box. Position items to balance load for carrying.

(2) Use filler material or empty inner containers when box is not full. Place padding on top of items.

(3) Close box top.

(4) Close hasp.

(5) Rotate hasp catch to latch position.

h. Wirebound Box.

(1) Position inner pack(s) on bottom of box. Position items to balance load for carrying.

(2) Place box ends in position with enough filler material to make a tight pack.

(3) Raise box front into position and hold.

(4) Raise box back into position and hold.

(5) Close top, being careful to fit wire loops on top over wire loops on front.

(6) Bend wire loops flat against box using a sales closer.

i. Pallet.

(1) Arrange boxes, containers, projectiles, etc. on pallet in the same configuration as the original load, if possible. Distribute load for balance.

(2) Place separators between rows of metal tube containers.

(3) Place top (projectile pallet) in position.

(4) Cut 1 1/4-inch banding pieces about two feet longer than pallet girth.

(5) Position straps under upper part of pallet bottom.

(6) Position wood strips under straps to protect ammunition packaging.

(7) Insert one strap end from rear into strap stretcher so that strap is held firmly by stretcher and about 4 to 6 inches of strap protrudes.

(8) Place clip over strap end.

(9) Thread loose end of that strap through clip and into stretcher head.

(10) Tighten strap, by repeated movement of ratchet lever, until edges begin to cut into wood.

(11) Using banding crimper, crimp clip in two places.

(12) Release locking pawl on stretcher and slide stretcher out.

(13) Cut off excess strapping.

(14) Repeat (7) through (13), above, for each strap.

3-15. Painting and Marking of Boxes with Light Loads

NOTE

Organizations will apply this procedure only when boxes with less than full contents are to be returned to storage area or transported to new location. When painting of boxes is required, remarking (except quantity) may be avoided by applying masking tape on markings prior to painting.

Boxes with less than full contents will be painted orange as follows:

a. Check contents with markings on box to verify that nomenclature and lot number are correct.

b. Make diagram of markings on box and record all markings except quantity figure.

c. Apply orange enamel to all outer surfaces of box. If enamel is not available use orange lacquer.

d. When box is dry, re-mark box with correct markings (*b*, above).

e. Count quantity of items in box and mark number on box in the same position as the original quantity figure.

f. Mark the words "LIGHT BOX" on each side of box, using approximately the same letters as original markings.

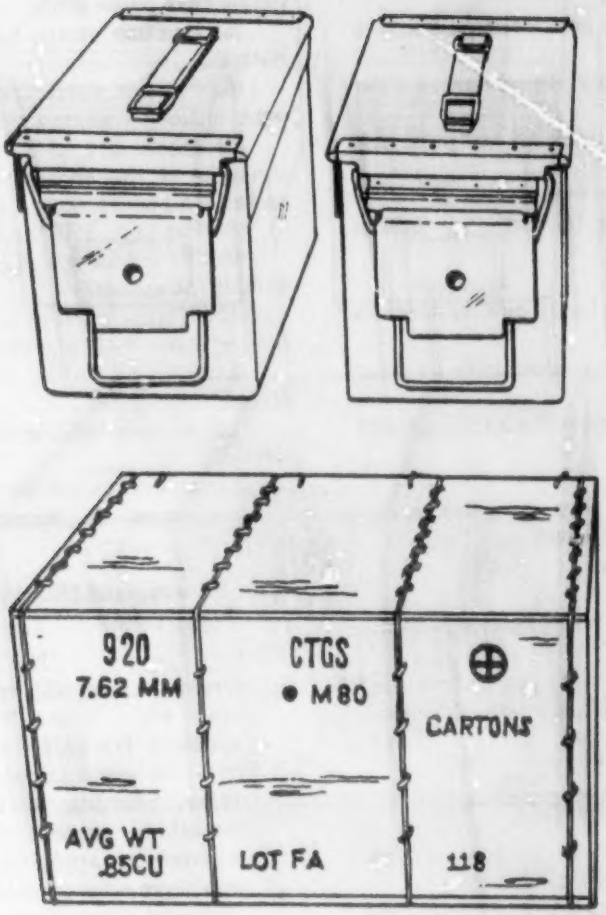

Figure 3-11. Two M2A1 ammunition boxes and wirebound box.

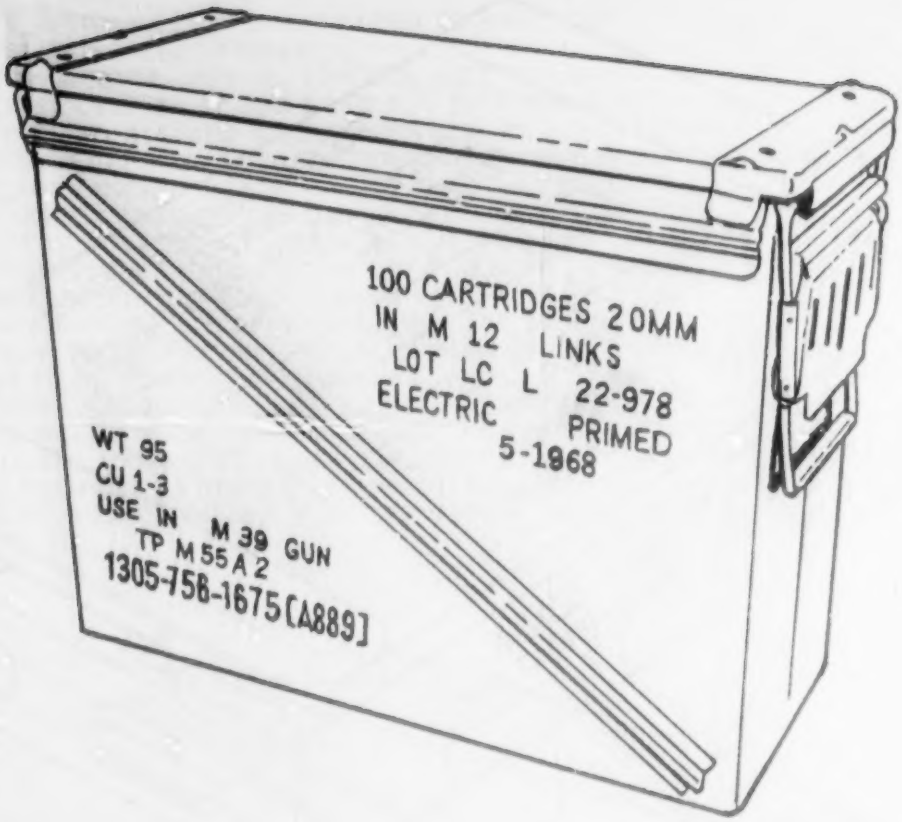

Figure 3-12. Shipping and storage container M548 for 20mm cartridges.

Figure 3-13. Shipping and storage container M528 for 20mm cartridges.

GENERAL NOTES

1. UNIT SHOWN HEREON IS PREPARED TO MEET THE FOLLOWING REQUIREMENTS:
   A. GROSS WEIGHT APPROX. 2000 LBS, NOT TO EXCEED 2200 LBS.
   B. HEIGHT OF PALLET AND LOAD NOT TO EXCEED 52".
   C. OVERHANG AVOIDED WHERE POSSIBLE, BUT SHOULD NOT EXCEED APPROX. 1" IN ANY DIRECTION. ONE INCH, TWO INCH, OR FOUR INCH BATTENS MAY BE USED AS REQUIRED.
   D. BOXES SECURED TO THE PALLET BY STEEL STRAPPING 1 1/4" X .035, TYPE I, CLASS A OR B, FED SPEC QQ-S-781A.
   E. STRAPPING SECURED BY ONE 1 1/4" SEAL SECURED WITH A DOUBLE CRIMP, FED SPEC QQ-S-766.
2. A MINIMUM OF 2 STAPLES WILL BE USED TO FASTEN EACH STRAP TO ITS BATTEN. STAPLES WILL NOT BE USED WITHOUT BATTENS. STAPLES AUTHORIZED ARE 1 3/8" X 3/4".
3. ADDITIONAL BANDING MAY BE USED IN ANY DIRECTION ON THE PALLET LOAD, AT THE DISCRETION OF THE SHIPPER.
4. FILLERS, CONSTRUCTED OF TWO INCH LUMBER, MAY BE USED TO COMPLETE PARTIAL LAYERS ON PALLET. FILLERS SHOULD BE PLACED ON INTERIOR OF TOP LAYER, WHENEVER PRACTICAL.

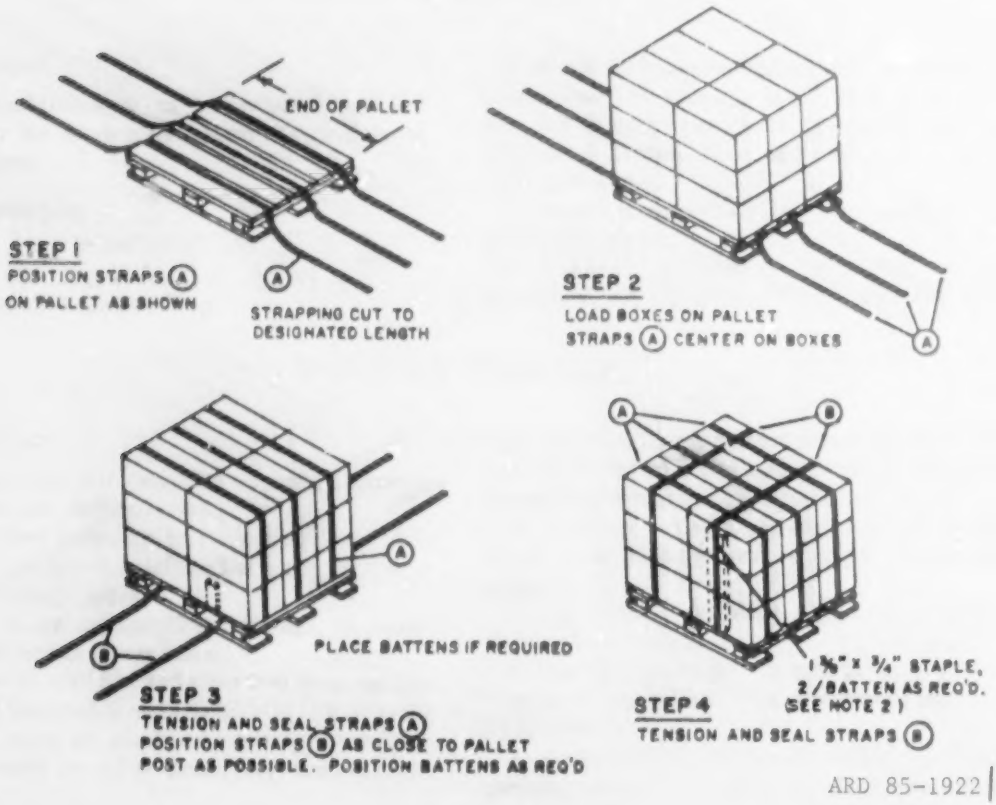
END OF PALLET
STEP 1
POSITION STRAPS (A) ON PALLET AS SHOWN
STRAPPING CUT TO DESIGNATED LENGTH
STEP 2
LOAD BOXES ON PALLET
STRAPS (A) CENTER ON BOXES
PLACE BATTENS IF REQUIRED
STEP 3
TENSION AND SEAL STRAPS (A)
POSITION STRAPS (B) AS CLOSE TO PALLET POST AS POSSIBLE. POSITION BATTENS AS REQ'D
1 3/8" x 3/4" STAPLE, 2/BATTEN AS REQ'D. (SEE NOTE 2)
STEP 4
TENSION AND SEAL STRAPS (B)
ARD 85-1922

Figure 3-14. Palletizing.

4-5. Storage Data

a. Field Storage Categories. Storage categories are the primary groups into which ammunition is segregated for storage in the field. The groupings are based on consideration of the desirability of storing components of complete rounds in adjacent stacks and on consideration of the hazards of propagation of explosion, range of fragments, spread of fires, and chemical contamination. Safety procedures covering storage are based on the following factors: Items having comparable storage risks are grouped together in the same category. For further information refer to TM 9-1300-206.

b. Storage Compatibility Grouping. All ammunition and explosives are assigned to an appropriate storage compatibility group (SCG) for storage at army activities. Factors which determine ammunition and explosive storage compatibility groupings are evaluated on the basis of data obtained from ammunition drawings and tests required by TB 700-2 and other tests during research and development to determine characteristics.

4-6. Hazard Classifications and Compatibility Groups

Table 4-1 provides examples of the relationship between storage compatibility groups and quantity-distance divisions. Examples of specific ammunition and explosives in these divisions and groups are indicated in table 4-2.

Table 4-1. Hazard Classifications/Compatibility Groups

	Items	SCG	Q-D Class 1 Division
1.	Initiating explosives.	A	1
2.	Detonators and similar initiating devices.	B	1,2, or 4
3.	Bulk propellants, propellant, propelling charges, and devices containing propellant with or without means of ignition.	C	1, 2, 3 or 4
4.	Black powder, high explosives, and HE ammunition without its own means of initiation and without a propelling charge.	D	1 or 2
5.	HE ammunition without its own means of initiation, with a propelling charge.	E	1 or 2
6.	HE ammunition with its own means of initiation, with or without a propelling charge.	F	1 or 2
7.	Fireworks and illuminating, incendiary, smoke or tear producing ammunition other than ammunition that is activated by exposure to water or the atmosphere.	G	1, 2, 3, or 4
8.	Ammunition containing both explosives and white phosphorous or other pyrophoric material.	H	2 or 3
9.	Ammunition containing both explosives and flammable liquid or gel filler.	J	3
10.	Ammunition containing both explosives and toxic chemical agent.	K	2
11.	Ammunition, not included in other groups, requiring separate storage.	L	1, 2, 3, or 4
12.	Ammunition which presents no significant hazards.	S	4 or None

Table 4-2. Summary of Quantity-Distance Classifications and Storage Compatibility Groupings for Small Arms

Item	Storage compatibility group	Quantity-distance class
Ammunition, small arms, less than 50 caliber	S	1.4
Ammunition, 50 caliber, except API and Incendiary rounds	C	1.4
Ammunition, 50 caliber API and Incendiary	G	1.4
Ammunition, 20MM, HE, HEI and functional packs containing HE AND HEI	E	(04) 1.2
Ammunition, 20MM; practice and high pressure tests	C	1.4
Ammunition, 20MM, Incendiary and functional packs containing incendiary, except those containing HE or HEI	G	(04) 1.2
Ammunition 20MM, API	G	1.4
Ammunition 20MM, with inert projectile	C	1.4
Ammunition 25MM HEDP	E	(04) 1.2
Ammunition 30MM, ball and high pressure test	C	(04) 1.2
Ammunition 30MM, practice and training	C	1.4
Ammunition 30MM, HEDP	E	(04) 1.2

APPENDIX A

REFERENCES

A-1. Administrative Publications

a. Army Regulations.

Reporting of Transportation Discrepanices in Shipments ..... AR 55-38
Malfunctions Involving Ammunition and Explosives ..... AR 75-1
Fire Prevention and Protection ..... AR 420-90
Accident Reporting and Records ..... AR 385-40
Regulations for Firing Ammunition for Training, Target Practice, and Combat 385-63
Safety Manual ..... DARCOM 385-100
Packaging Improvement Report ..... AR 700-58

b. DA Pamphlets.

Index of Administrative Publications ..... DA Pam 310-1
Index of Blank Forms ..... DA Pam 310-2
Index of Doctrinal, Training and Organizational Publications ..... DA Pam 310-3
Index of Technical Publications (Includes: Equipment Identification Lists, Lubrication Orders, Modification Work Orders, Supply Bulletins, Supply Catalogs, Supply Manuals, Technical Bulletins, Technical Manuals) ..... DA Pam 310-4
Index of Supply Catalogs and Supply Manuals (excluding types 7,8, and 9) ..... DA Pam 310-6

A-2. Blank Forms

Discrepancy in Shipment Report ..... SF 361
US Army Accident Investigation Report ..... DA Form 285
Recommended Changes to Publications and Blank Forms ..... DA Form 2028
Maintenance Request ..... DA Form 2407
Report of Discrepancy ..... SF Form 364
Ammunition Condition Report ..... DA Form 2415
Fire Report ..... DA Form 3985

A-3. Doctrinal, Training and Organizational Publications

Conventional Ammunition Maintenance Unit Operations ..... FM 9-19
Conventional Ammunition Unit Operations ..... FM 9-38
Explosives and Demolitions ..... FM 5-25

A-4. Equipment Manuals

a. Technical Manuals.

Ammunition, General ..... TM 9-1300-200
Army Ammunition Data sheets for Small Caliber Ammunition FSC 1305 ..... TM 43-0001-27
Ammunition and Explosive Standards ..... TM 9-1300-206
Ammunition Maintenance ..... TM 9-1300-250
Small Arms Ammunition Procedures for Rapid Development ..... TM 750-173
Military Explosives ..... TM 9-1300-214
Destruction of Conventional Ammunition and Improved Convention Munitions to Prevent Enemy Use (excluding Toxic and Incapacitating Chemical Agents) For Combat Units) ..... TM 750-244-5-1

b. Technical Bulletins.

Munitions: Suspended or Restricted ..... TB 9-1300-385-1

A-5. Supply Catalogs

FSC Group 13 Ammunition and Explosives (Classes 1305-1330) ..... SC 1305/30-IL

Section II. MAINTENANCE ALLOCATION CHART

NOTE
Refer to Chapter 2 by group number for the specific item applicable to each maintenance function.

(1)	(2)	(3)												(4)	(5)
		Maintenance function													
				Service							Renovate				
Group No.	Functional group	Inspect	Test	Unpack	Repack	Clean	Touch up	Mark	Install	Adjust	Paint	Repair	Replace	Tools and equipment	Remarks
	01 GROUP														
0101	CARTRIDGE, SHOTGUN, 12 GAGE														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	D	—	F	F	O	O	O	—	—	O	O	O	•	
0101	CARTRIDGE, SHOTGUN, .410 GAGE														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0101	CARTRIDGE, SHOTGUN, 10 GAGE														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0102	PROJECTILE ASSEMBLY														
0103	PROPULSION SYSTEM														
0104	FUZE														
0105	LINKS														
	02 GROUP														
0201	CARTRIDGE, CALIBER .22														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGE, CALIBER .32														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGE, CALIBER .38														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGE, CALIBER .45														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGE, 5.56MM														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Cartridge-Clipped/Magazine	C	D	C	C	C	—	—	C	—	—	—	—		
	c. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGES, 7.62MM														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Cartridge-Clipped/Magazine	C	D	C	C	C	—	—	C	—	—	—	—		
	c. Cartridge—Linked	C	D	C	C	C	—	—	C	—	—	—	—	••	
	d. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGES, CALIBER .50														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	F	D	—		
	b. Cartridge-Linked	C	D	C	C	C	—	—	C	—	F	D	—	••	
	c. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGES, 9MM														
	a. Cartridge—Bulk	C	D	C	C	C	—	—	C	—	F	D	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0201	CARTRIDGES, 14.5MM														
	a. Cartridge—Bulk	C	D	C	C	C	O	F	C	—	F	D	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	•	
0202	PROJECTILE ASSEMBLY														
0203	PROPULSION SYSTEM														
0204	FUZE														
0205	LINKS														

(1)	(2)	(3)												(4)	(5)
		Maintenance function													
				Service							Renovate				
Group No.	Functional group	Inspect	Test	Unpack	Repack	Clean	Touch up	Mark	Install	Adjust	Paint	Repair	Replace	Tools and equipment	Remarks
	03 Group														
0301	CARTRIDGES, 20MM														
	a. Cartridge—Bulk	C	D	C	C	C	O	F	C	—	F	D	—		
	b. Cartridge—Linked	C	D	C	C	C	O	F	C	—	F	D	—		
	c. Cartridge—H. E. Loaded	C	D	O	C	C	O	F	C		F	D	—		
	d. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	*	
0302	PROJECTILE ASSEMBLY														
	Tracer	D	D	D	D	D	—	—	—	—	—	—	D		
0303	PROPULSION SYSTEM														
	Primer	D	D	D	D	D	—	—	—	—	—	—	D		
0304	FUZE														
	Nose Fuze	D	D	D	D	D	—	—	—	—	—	—	D		
0305	LINKS														
	04 Group														
0401	CARTRIDGES, 25MM														
	a. Cartridge—Linked	C	D	C	C	C	O	F	C	—	F	D	—	**	
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	*	
0402	PROJECTILE ASSEMBLY														
	Tracer	D	D	D	D	D	—	—	—	—	—	—	D		
0403	PROPULSION SYSTEM														
	Primer	D	D	D	D	D	—	—	—	—	—	—	D		
0404	FUZE														
	Nose Fuze	D	D	D	D	D	—	—	—	—	—	—	D		
0405	LINKS														
0406	CARTRIDGES, 25.4MM														
	a. Cartridges	C	D	C	C	C	—	—	C	—	—	—	—		
	b. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O		
	05 Group														
0501	CARTRIDGES, 30MM														
	a. Cartridge-Linked	C	D	C	C	C	O	F	C	—	F	D	—	**	
	b. Cartridge—H. E. Loaded	C	D	C	C	C	O	F	C	—	F	D	—		
	c. Packaging for Cartridge	O	—	F	F	O	O	O	—	—	O	O	O	*	
0502	PROJECTILE ASSEMBLY														
	Tracer	D	D	D	D	D	—	—	—	—	—	—	D		
0503	PROPULSION SYSTEM														
	Primer	D	D	D	D	D	—	—	—	—	—	—	O		
0504	FUZE														
	Nose Fuze	D	D	D	D	D	—	—	—	—	—	—	D		
0505	LINKS														

*Refer to Appendix C, Section IV

**Refer to TM 9-1305-201-34&P, Appendix B, Section IV

APPENDIX C

ORGANIZATION MAINTENANCE REPAIR PARTS AND SPECIAL TOOL LIST

Section I. INTRODUCTION

C-1. Scope

This appendix lists repair parts and special tools required for the performance of organization maintenance of small arms ammunition.

C-2. General

This appendix is divided into the following sections:

a. Repair Parts List—Section II. This lists the repair parts authorized for the performance of maintenance at the organizational level.

b. Cross Reference List—Section III. This list is a cross reference of repair parts for the convenience of personnel.

c. Special Tools List—Section IV. A list of special tools, test and support equipment authorized for the performance of maintenance at direct support and general support levels.

C-3. Explanation of Columns

The following provides an explanation of columns in Sections II and III.

a. Item Number. Item number indicates the number used to reference the item on the listings. It consists of the following:

(1) *Repair parts list.* Item number is comprised of the group number (see maintenance allocation chart), followed by an assigned number according to alphameric sequence within the group.

(2) *Special tools list.* Item number is an assigned number given to each special tool. This number corresponds, if applicable, to the number used in column (4) of the maintenance allocation chart.

b. Source, Maintenance, and Recoverability Codes (SMR).

(1) *Source code.* Source code (second positions) indicates the source for the listed item. Source codes are:

Code	*Explanation*
PA	Item procured and stocked for anticipated or known usage.
XB	Item is not procured or stocked. If not available through salvage, requisition.

(2) *Maintenance code.* Maintenance code consists of two parts—USE code (third position) and REPAIR code (fourth position). USE code indicates the lowest maintenance level authorized to remove, replace, and use the listed item. REPAIR code indicates whether the item is to be repaired, and identifies the lowest maintenance level authorized to repair the listed item. Maintenance codes are:

Code *Use*	*Explanation*
F	Support item is removed, replaced, and used at the direct support level.
H	Support item is removed, replaced, and used at the general support level.
O	Support item is removed, replaced, and used at the organizational level.
Repair	
D	The lowest maintenance level capable of complete repair of the support item is the depot level.

Code *Repair*	*Explanation*
D	The lowest maintenance level capable of complete repair of the support item is the depot level.
F	The lowest maintenance level capable of complete repair of the support item is the direct support level.
O	The lowest maintenance level capable of complete repair of the support item is the organizational level.
Z	Nonreparable. No repair is authorized.

(3) *Recoverability code.* Recoverability code (fifth position) indicates the disposition action on an unserviceable item. Recoverability codes are:

Code	*Explanation*
F	Reparable item. When uneconomically reparable, condemn and dispose of at direct support level.
L	Reparable item. Repair, condemnation, and disposal not authorized below depot/specialized repair activity level.
O	Reparable item. Where uneconomically reparable, condemn and dispose of at organizational level.
Z	Nonreparable item. When unserviceable, condemn and dispose of at the level indicated in position 3 (USE code).

c. National Stock Number. This column indicates the National stock number assigned to the item and will be used for requisitioning purposes.

d. DODIC. This column indicates the Department of Defense Item Code.

e. Part Number. This column indicates the primary number used by the manufacturer (individual, company, firm, corporation, or Government activity), which controls the design characteristics of the item by means of its engineering drawings, specifications, standards, and inspection requirements to identify an item or range of items.

f. Federal Supply Code for Manufacturers (FSCM). This column indicates a 5-digit numeric code used to identify the manufacturer, distributor, or Government agency that controls the design characteristics of the item.

g. Description. This column indicates the Federal item name and any additional description of the item required.

h. Unit of Measure (U/M). A two-character alphabetic abbreviation indicating the unit upon which the allowances are based; e.g., ft, ea, pr, etc.

i. Quantity Incorporated in Unit. This column indicates the quantity of the item used with or on the equipment.

Section II. REPAIR PARTS LIST

Item No.	SMR codes	National stock No	Part No.	Federal mfg code	Description	Unit of measure	Qty inc. in unit
					CARTRIDGE, 12 GAGE SHOTGUN		
					Plastic Case No. .00 Buckshot, XM162; Paper Case No. .00 Buckshot; All Brass No. .00 Buckshot, M19.		
					Packing for:		
0101	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-978-8969	7553347	19200	Box, Wirebound	ea	1
	XB000	8140-00-825-1402	.....	19200	Carton	ea	20
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood	ea	1
					CARTRIDGE, CALIBER .22		
					CARTRIDGE, Cal .22 Ball, Long Rifle, M24		
					CARTRIDGE, Cal .22 Ball, Hornet M65 (soft point).*		
					CARTRIDGE, Cal .22 Ball, Long Rifle, Match grade, commercial pack.		
					CARTRIDGE, Cal .22 Ball, short super match or equal commercial pack.*		
					CARTRIDGE, Cal .22: Tracer, Long Rifle, M861		
					Packing for:		
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	20
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
	XB000		7540495	19200	Carton	ea	50
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood	ea	1
					CARTRIDGE, 9 MILLIMETER		
					Ball, NATO, M882; Test High Pressure, M905;		
					Packing for:		
0201	XB000		9362826	19200	Carton (50 rd)	ea	1
	XB000		9362803	19200	Tray, Cartridge	ea	1
	XB000		9378264	19200	Filler, Bottom	ea	1
	XB000		9378264	19200	Filler, Side	ea	1
	XB000		9378264	19200	Filler, End	ea	1
	XB000		9378264	19200	Tape, Removal	ea	1
	XB000	8140-00-960-1694	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-778-8969	7553347	19200	Box, Wirebound	ea	1

*Refer to SL 1305/30-IL

Item No.	SMR codes	National stock No.	Part No.	Federal mfg code	Description	Unit of measure	Qty inc. in unit
					CARTRIDGE, CALIBER .38		
					Special Ball, M41		
					Packing for:		
0201	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8169	7553347	19200	Box, Wirebound	ea	1
	XB000	.....	8594102	19200	Carton (50 rd)	ea	2
	XB000	.....	7553768	19203	Filler, End	ea	1
	XB000	.....	7553766	19203	Filler, Top	ea	1
	XB000	.....	7553767	19203	Filler, Top	ea	1
					Special, Ball, XM142		
					Packing for:		
0201	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
	XB000	.....	7553363	19203	Carton (50 rd)	ea	2
	XB000	.....	7553766	19203	Filler, Top	ea	1
	XB000	.....	7553768	19203	Filler, End	ea	1
	XB000	.....	7553767	19203	Filler, Center	ea	1
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood (all ctg Cal .38 may use this pallet)	ea	1
					CARTRIDGE, CALIBER .45		
					Ball, M1911		
					Packing for:		
0201	XB000	.....	5580944	19203	Carton (50 rd)	ea	2

Item No.	SMR codes	National stock No.	Part No.	Federal mfg code	Description	Unit of measure	Qty inc. in unit
					CARTRIDGE, CALIBER .45—Cont.		
	XB000	.....	7553730	19200	Filler, Top	ea	1
	XB000	.....	7553730	19203	Filler, End	ea	1
	XB000	.....	7553730	19203	Filler, Side	ea	1
	XB000	.....	7553730	19203	Taper, Removal	ea	1
	XB000	8140-00-960-1699	7553356	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Ball, M1911 Match Grade		
					Packing for:		
	XB000	.....	1052136	19203	Carton (50 rd)	ea	1
	XB000	.....	8596133	19200	Filler, Top	ea	1
	XB000	.....	8596133	19200	Filler, End	ea	1
	XB000	.....	8596133	19200	Filler, Side	ea	1
	XB000	.....	8596133	19200	Tape, Removal	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood (All ctg Cal .45 may use this pallet)	ea	1
					CARTRIDGE, CALIBER .50		
					Tracer, M1, M17; Incendiary, M1, M23 Armor Piercing, M2, API, M8 APIT M20, Tracer, M17, Tracer, Headlight M21, Ball, M2, M33, Blank M1, M1A1; Ball, Plastic Practice, M858 Tracer, Plastic Practice, M860		
					Packing for:		
0201	PA0ZZ	1305-00-078-8463	7140393	19200	Link, M9	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Tracer, M1, M17, Armor Piercing, M2 Ball, M2, M33; API, M8, Tracer, Headlight, M21, Incendiary, M23		
					Packing for:		
0201	XB000	.....	7553547	19200	Filler, End	ea	1
	XB000	.....	7553548	19200	Filler, Side	ea	1
	XB000	.....	7553550	19200	Filler, Top and Bottom	ea	1
	XB000	.....	7553549	19200	Separator	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Tracer, M1, M17, API, M8, APIT, M23 Tracer, Headlight, M21, Incendiary, M23 Pall, M33		
					Packing for:		
0201	PA0ZZ	1305-00-892-4879	7791440	19204	Link, M15A2	ea	10
	XB000	.....	8596922	19200	Filler, Slide	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Spotter Tracer, M48 Series		
					Packing for:		
	.....	.....	7553722	19200	Carton (10 rd)	ea	1
	.....	.....	7553720	19200	Filler, End	ea	1
	.....	.....	7553720	19200	Filler, Side	ea	1
	.....	.....	7553720	19200	Filler, Bottom	ea	1
	.....	.....	7553720	19200	Tap	ea	1
0201	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
	PA0ZZ	.....	7991261	19200	Link, M15A1	ea	10
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood (All ctg Cal .50 may use this pallet)	ea	1
					CARTRIDGE, 5.56 MILLIMETER		
					Ball, M193, Tracer, M196 HP-T, M197		
					Packing for:		
0201	XB000	.....	10534433	19200	Carton (20 rd)	ea	1
	XB000	.....	10535857	19200	Filler, Slide	ea	1
	XB000	.....	10535857	19200	Filler, Corner	ea	1
	XB000	.....	10535857	19200	Tape, Removal	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Ball, M193, Tracer, M196		
					Packing for:		

Item No.	SMR codes	National stock No.	Part No.	Federal mfg code	Description	Unit of measure	Qty inc in unit
					CARTRIDGE, 5.56 MILLIMETER—Cont.		
0201	PAOZZ	1305-00-052-4377	10010483	19204	Clip (10 rd)	ea	1
	XB000	.....	10542256	19200	Carton	ea	1
	PAOZZ	1305-00-924-3088	10534431	19200	Bandoleer, M3	ea	1
		1005-00-052-4377	11010484	19205	Filler, Magazine	ea	1
	XB000	.....	10542257	19200	Filler	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8669	7553347	19200	Box, Wirebound	ea	1
					Grenade, M195, Blank, M200		
					Packing for:		
0201	XB000	.....	10542289	19200	Carton (20 rd)	ea	4
	XB000	.....	10542290	19200	Filler, Upper Corner	ea	1
	XB000	.....	10542290	19200	Filler, Lower Corner	ea	1
	XB000	.....	10542290	19200	Filler, Upper Side	ea	1
	XB000	.....	10542290	19200	Filler, Folded	ea	1
					Ball, M855, Tracer, M856, Plastic, Practice, M862		
					Packing for:		
	PAOZZ	.....	11691287	19200	M27	ea	1
	XB000	.....	93499295	19200	Bandoleer	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8669	7553347	19200	Box, Wirebound, M2A1	ea	1
	XB000	.....	10542290	19200	Filler, Inner	ea	1
	XB000	.....	10542290	19200	Tape, Removal	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8669	7553347	19200	Box, Wirebound	ea	1
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood (All ctg Cal 5.56mm may use this pallet)	ea	1
					CARTRIDGE, 7.62 MILLIMETER		
					Nato, Ball, M59, M80, Nato, AP, M61, Nato, Tracer, M62		
					Packing for:		
0201	XB000	.....	.....	19203	Carton (20 rd)	ea	2
	XB000	.....	7553714	19200	Filler, End	ea	1
	XB000	.....	7553715	19200	Filler, Bottom	ea	1
	XB000	.....	7553716	19200	Filler, Side	ea	1
	XB000	8140-00-828-2938	7553315	19200	Box, Ammunition, M19A1	ea	1
	XB000	.....	7555581	19200	Box, Wirebound	ea	1
					Nato, Ball, M59, M80, Nato, AP, M61, Nato, Tracer, M62		
					Packing for:		
0201	XB000	8140-00-828-7398	.....	19203	Carton	ea	2
	XB000	.....	7553745	19200	Filler, Side	ea	1
	XB000	.....	7553745	19200	Filler "U" Top	ea	1
	XB000	.....	7553745	19200	Tape, Removal	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Nato, Ball, M59, M80, Nato, Tracer, M62		
					Packing for:		
0201	PAOZZ	1305-00-752-7815	7268389	19204	Link, M13	ea	1
	XB000	.....	8595244	19200	Filler, Side	ea	1
	XB000	8140-00-828-2938	7553315	19200	Box, Ammunition, M19A1	ea	1
	XB000	8140-00-891-6322	7555581	19200	Box, Wirebound	ea	1
					Nato, Ball, M59, M80, Nato, Tracer, M62		
					Packing for:		
0201	PAOZZ	1305-00-752-7815	7268389	19204	Link, M13	ea	1
	XB0ZZ	8140-00-828-7422	.....	19203	Carton, (100 rd)	ea	1
	PAOZZ	1305-00-079-3579	8594723	19200	Bandoleer, M4	ea	1
	XB000	8140-00-828-2938	7553315	19200	Box, Ammunition, M19A1	ea	1
	XB000	8140-00-891-6322	7555581	19200	Box, Wirebound	ea	1
					Nato, Ball, M59, M80, Nato, Tracer, M62		
					Packing for:		
0201	PAOZZ	1305-00-914-7912	.....	19200	Clip, (5 rd)	ea	1
	PAOZZ	1305-00-052-4336	7791154	19205	Filler, Magazine (5 rd clip)	ea	1
	XB000	.....	8594722	19203	Carton	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1

Item No	SMR codes	National stock No	Part No	Federal mfg code	Description	Unit of measure	Qty inc in unit
					CARTRIDGE, 7.62 MILLIMETER—Cont		
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Nato, Tracer, M62, Nato, Ball M80		
					Packing for:		
0201	PAOZZ	1305-00-752-7815	7268389	19204	Link, M13	ea	1
	XB000	8140-00-828-7422	.....	19203	Carton, (100 rd)	ea	1
	PAOZZ	1305-00-079-3579	8594723	19200	Bandoleer, M4	ea	1
	XB000	8140-00-828-2938	7553315	19200	Box Ammunition, M19A1	ea	1
	XB000	8140-00-891-6322	7555581	19200	Box, Wirebound	ea	1
					Nato, Tracer, M62 (Overhead Fire Application); Ball, M80 (Overhead Fire Application)		
					Packing for:		
0201	PAOZZ	1305-00-752-7815	7268389	19204	Link, M13	ea	1
	XB000	8140-00-828-2422	.....	19203	Carton, (100 rd)	ea	1
	PAOZZ	1305-00-079-3599	8594723	19200	Bandoleer, M4	ea	1
	XB000	8140-00-828-2938	7553315	19200	Box, Ammunition, M19A1	ea	1
	XB000	8140-00-891-6322	7555581	19200	Box, Wirebound	ea	1
					Nato, Ball, M80		
					Packing for:		
0201	XB000	.....	10534739	19203	Carton	ea	1
	PAOZZ	1305-00-079-3171	.....	19200	Bandoleer M1	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
					Match, M118, Match M852		
					Packing for:		
0201	.....	8140-00-728-7398			Carton, (20 rd)	ea	1
	XB000		8596111	19200	Filler "U" Top	ea	1
	XB000		8596111	19200	Filler, Side	ea	1
	XB000		8596111	19200	Tape, Removal	ea	1
	XB000	8140-00-960-1699	7552296	19200	Box, Ammunition M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
	XB000	8140-00-728-7398	.....	.....	Carton (20 rd)	ea	1
	XB000		8596108	.....	Filler, "U" End	ea	1
	XB000		8596108	.....	Filler, Slide	ea	1
	XB000		8596108	.....	Filler, Bottom	ea	1
	XB000		8596108	.....	Tape Removal	ea	1
	XB000	8140-00-828-2938	7553315	19200	Box, Ammunition, M19A1	ea	1
	XB000	8140-00-891-6322	7555581	19200	Box, Wirebound	ea	1
					Nato, Grenade, M64		
					Packing for:		
0201	XB000	.....	7553850	19200	Carton (5 rd)	ea	1
	XB000	.....	7553851	19200	Envelope, Waterproof	ea	1
	XB000	8140-00-960-1699	7553296	19200	Box, Ammunition, M2A1	ea	1
	XB000	8140-00-078-8969	7553347	19200	Box, Wirebound	ea	1
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood (All 7.62mm ctgs may use this pallet)	ea	1
					CARTRIDGE, 20 MILLIMETER		
					HEI, M97 Series; Incendiary M96, TP, M99A1, TP-T, M220, TP, M204, HEI, M56 Series, HEI-T, M242, AP-T, M95, Dummy, M51A2, TP-T, M55A2, API-T, M53, TP-T, M206, HEI-T, M242, HEI-T, M599, API-T, M601, API-T, M52E1, HEI-T-SD, M246/M246A1		
					Packing for:		
0301	XB000	8140-00-739-0233	7258943	19201	Box, Metal, M548	ea	1
	XB000	8135-00-754-2628	.....	.....	Filler, Fiberboard	ea	1
	XB000	8140-00-738-6426	10542308	19200	Box, Metal, M528	ea	1
	XB000	3990-00-141-7261	MIL-P 15011	81349	Pallet, Wood (All 20mm ctgs may use this pallet)	ea	1
0305	PAOZZ	1305-00-926-3960	7238242	19204	Link, DM10	ea	1
	PAOZZ	1305-00-926-1939	11686411	19204	Link, M22	ea	1
	PAOZZ	1305-00-585-3806	.....	.....	Link, M14	ea	1
	PAOZZ	1305-00-965-0853	11010274	19200	Link, M14A1	ea	1
	PAOZZ	1305-00-935-9219	8447633	19200	Link, M14A2	ea	1
	PAOZZ	1305-00-965-0859	.....	.....	Link, M17A2	ea	5
	PAOZZ	1305-00-541-0021	7147028	19200	Link, M12	ea	500
	PAOZZ	1305-00-935-1966	11577416	19204	Link, M24	ea	500

Item No.	SMR codes	National stock No.	Part No.	Federal mfg code	Description	Unit of measure	Qty inc. in unit
					CARTRIDGE, 20 MILLIMETER—Cont.		
	PAOZZ	1305-00-935-6094	8445027	19200	Link, M26	ea	1
	PAOZZ	1305-00-926-3960	130-147-0100-4	19200	Link, DM1	ea	1
	PAOZZ	1305-00-926-3961	130-147-0000-3	19200	Link, DM1A	ea	1
					CARTRIDGE, 22 MILLIMETER		
					Sub-caliber Practice Cartridges, M744, M745, M746 and M747		
					Packing for:		
0401	XB000	.....	9322201	19200	Box, Ammunition	ea	1
	XB000	.....	9322198	19200	Polystyrene compartment	ea	1
					CARTRIDGE, 25 MILLIMETER		
					APDS-T, M791; HEI-T, M792; TP-T, M793		
					Packing for:		
0405	PAOZZ	1305-01-145-4721	12073213	19204	Link Assembly: 25mm, M28	ea	1
0401	XB000	1305-01-105-4096	12013668	19204	Container, Shipping M621	ea	1
	XB000	.....	19-48-4116/17	19204	Pallet, Wood	ea	1
					CARTRIDGE, 25 4 MILLIMETER		
					DECOY, M839		
					Packing for:		
0406	XB000	.....	9332576	19200	Box, Wood	ea	1
	XB000	.....	8865541	19200	Container: PA19	ea	2
					CARTRIDGE, 30 MILLIMETER		
					TP, M788, HEDP, M789, HEI-T, M799		
					Packing for:		
0401	XB000	.....	9229066	.....	Metal Container, M592	ea	1
0405	PAOZZ	1305-00-M00-B120	11825879	19200	Link, Cartridge: XM29	ea	1
	XB000	.....	19-48-4116/18	19200	Pallet, Wood	ea	1

Section III. CROSS REFERENCE LIST

Illustration	SMR codes	National Stock number	DODIC	Part No.	Fed mfg code	Description	Unit of measure	Qty. inc. in unit
						BANDOLEER:		
F2-3	PAOZZ	1305-00-924-3088	A317	10534431	19200	For 5.56mm, M3	ea	25
F2-5	PAOZZ	1305-00-984-1125	A314	8594723	19200	For 7.62mm, M2	ea	25
F2-6	PAOZZ	1305-00-079-3579	A315	8597304	19200	For 7.62mm, M4	ea	25
						BOX, AMMUNITION:		
F3-5	XB000	8140-00-960-1699	N/A	7553296	19200	Metal, M2A1	ea	1
F3-2	XB000	8140-00-828-2938	N/A	7553315	19203	Metal, M19A1	ea	1
	XB000	8140-00-145-0051	N/A	8865541	19200	Metal, PA19	ea	1
						BOX, WOOD		
	XB000	8140-00-078-8969	N/A	7553347	19200	For M2A1, Metal Box	ea	1
	XB000	8140-00-891-6322	N/A	5581378	19200	For M19A1, Metal Box	ea	1
	XB000	.....	N/A	9332576	19200	For PA19, Metal Box	ea	1
						CARTON, Fiber Ammunition		
	XB000	8140-00-825-1402	N/A	B6941	19203	25 rd capacity for 12 gage shotgun paper case No. 00 buckshot, all brass No. 00 buckshot No. 19.	ea	20
	XB000		N/A	9362826	19200	50 rd capacity for Cartridge 9MM, Ball, M882	ea	1
	XB000	.....	.....	10534433	10203	20 rd capacity for 5.56mm	ea	1
F3-10	XB000	8140-00-828-7398	N/A	7553710	19203	20 rd capacity for cartridge, 7.62mm ball, M59, M80, Tracer M61.		
	XB000	8140-00-828-7422	N/A	8597302	19203	100 rd capacity for cartridge, 7.62mm ball, M59, M80, Tracer M61.		
	XB000	.....	.....	7535850	19203	5 rd capacity for cartridge, 7.62mm grenade M64.		
	XB000	.....	.....	8594102	19203	50 rd capacity for cartridge, caliber 38, ball, M41.		
	XB000	.....	.....	10521236	19203	50 rd capacity for cartridge, caliber 45, M1911.		

Illustration	SMR codes	National Stock number	DODIC	Part No.	Fed mfg code	Description	Unit of measure	Qty inc. in unit
						CLIP, CARTRIDGE		
F2-3	PAOZZ	1305-00-121-0872	A061	11010483	19204	For 5.56mm, 10 round	ea	1
F2-4	PAOZZ	1305-00-914-7912	A160	7790130	19200	For 7.62mm, 5 round	ea	1
						FILLER, MAGAZINE		
F2-4	PAOZZ	1005-00-052-4377	.....	11010484	19205	For 5.56mm, 5 round clip	ea	1
F2-4	PAOZZ	1305-00-057-4336	.....	77991154	19203	For 7.62mm, 5 round clip	ea	1
						LINK, METALLIC BELT		
	XBOZZ	1305-01-126-9924	B073	11691287	19200	5.56mm, M27	ea	1
F2-7	PAOZZ	1305-00-752-7815	B060	7268389	19204	7.62mm, M13	ea	1
F2-8	PAOZZ	1305-00-096-3181	A640	0537987	19200	Caliber, 50, M2	ea	1
F2-8	PAOZZ	1305-00-078-8463	A641	7140393	19200	Caliber, 50, M9	ea	1
	PAOZZ	1305-00-892-1508	A646	7791221	19200	Caliber, 50, M15A1	ea	1
F2-8	PAOZZ	1305-00-892-4879	A647	7791440	19200	Caliber, 50, M15A2	ea	1
F2-9	PAOZZ	1305-00-028-4869	B069	7238242	19206	20mm, M10	ea	1
F2-10	PAOZZ	1305-00-541-0021	B085	714028	19200	20mm, M12	ea	500
	PAOZZ	1305-00-965-0853	B083	11010274	19200	20mm, M14A	ea	1
F2-11	PAOZZ	1305-00-935-9219	B083	5447633	19200	20mm, M14A2	ea	500
F2-12	PAOZZ	1305-00-965-0859	B084	1101033	19204	20mm, M17A2	ea	500
	PAOZZ	1305-00-926-1939	B079	11686411	19204	20mm, M22	ea	1
	PAOZZ	1305-00-935-1969	B091	11577416	19204	20mm, M24	ea	500
	PAOZZ	1305-00-935-6094	B092	8445027	19200	20mm, M26	ea	500
	PAOZZ	1305-00-926-3960	B074	130-147-0100-4	19200	20mm, DM1	ea	1
	PAOZZ							
	PAOZZ	1305-00-926-3961	B075	130-147-0000-3	19200	20mm, DM1A	ea	1
F2-13	PAOZZ	1305-01-145-4721	B061	12073213	19204	25mm, M28	ea	1
	PAOZZ	1305-01-078-5505	.....	11825879	19200	30mm, XM29	ea	1
						SHIPPING AND STORAGE CONTAINER, AMMUNITION		
F3-23	XBOOO	8140-00-738-6426	N/A	10542398	19200	M528 for cartridges, 20mm	ea	1
F3-12	XBOOO	8140-00-739-0233	N/A	7258943	19201	M548 for cartridges, 20mm	ea	1
	XBOOO	8135-00-754-2628	N/A	MIL-B-3106	81349	Filler, Fiberboard for container, ammunition.	ea	1
						BOX, AMMUNITION		
	XBOOO	.....	.....	9322201	19200	For cartridges, 22mm, M744, M745, M746, M747.	ea	1
	XBOOO	.....	....	93222198	19200	Compartment, Polystyrene for M744, M745, M746, M747.	ea	1
						CONTAINER, SHIPPING: M621		
	XBOOO	1305-01-105-4096	A967	12073213	19204	For cartridges, 25mm: M791, M792, M793.	ea	1
						CONTAINER, METAL, M592		
	XBOOO	.....	.....	9229066	19200	For cartridges, 30mm, M788, M789, and M799.	ea	1

Section IV. SPECIAL TOOLS LIST

(1) Item No.	(2) SMR code	(3) National stock No.	(4) Part No.	(5) Fed supply code for manufacturing	(6) Description	(7) Unit of measure	(8) Quantity incorporated in unit
1	PAOZZ	5120-00-319-5434	8864731 S-43104	19203	SALEE CLOSER		
2	PAOZZ	3540-00-565-6242	Spec MIL-S-43104, Type III	81349	STRAPPING AND SEALING KIT: (5/8-Inch Strapping).		
3	PAOZZ	3540-00-565-6244	Spec MIL-S-43104, Type V	81349	STRAPPING AND SEALING KIT: 1-1/4-Inch Strapping.		

(1) National stock No.	(2) Description	(3) Specification No.	(4) Unit of issue
5315-00-889-2744	Nail, 6d, 2 in.	FF-N-105	pg
5315-00-889-2745	Nail, Box: 8d, 2½ in.	FF-N-105	lb
5350-00-271-7935	Paper, Abrasive, Flint: gr	P-P-105 class 1	pg
8010-00-161-7339	Primer, Paint: zinc chromate	TT-P-666	gl
7920-00-205-1711	Rag, Wiping: cotton, unbleached, mixture.	DDD-R-30	be
8135-00-239-5291	Seal, Strapping, for 5/8 steel strapping.	QQ-S-781	hd
8135-00-239-5294	Seal, Strapping: for 1¼ in. steel strapping.	QQ-S-781	hd
8135-00-281-4071	Strapping, Steel: 5/8 in. 0.020 in. thick	QQ-S-781	cl
8135-00-283-0671	Strapping, Steel:1¼ in.	QQ-S-781	cl
7510-00-266-6711	Tape, Masking, Pressure Sensitive Adhesive: ¾ in.	PPP-T-42	ro
7510-00-266-5016	Tape, Pressure Sensitive Adhesive: 2 in.	PPP-T-60	ro
8135-00-823-8073	Tape, Pressure Sensitive Adhesive: 1½ in. wide (for fiber containers)	MIL-T-43036	ro
8010-00-160-5794	Thinner, Synthetic Resin Enamel	TT-T-306	gl
8010-00-221-2808	Varnish, Oil: pheno-formaldehyde.	MIL-U-13750	gl
9505-00-294-7373	Wire, Steel, Carbon: round, zinc coated, .0363 in. dia.	QQ-W-461	cl
5350-00-242-4405	Wool, Metallic: steel, 1 lb	FF-S-740	ro
5350-00-255-7736	Wool, Metallic: copper, 1 lb	FF-W-185	ro

APPENDIX E

PACKING, MARKING AND STORAGE DATA

Section I. INTRODUCTION

E-1. Scope

This appendix contains information required by organizational level of maintlenance for repacking of small arms munitions.

E-2. Explanation of Columns

a. Item. Column 1 indicates the nomenclature of the munition.

b. O ter Pack. Column 2 indicates the type of package.

c. Inner Pack. Column 3 indicates the type of pack.

d. Number of Items in Package. Column 4 indicates the quantity of munitions in the outer pack.

e. Number of Items per Inner Pack. Column 5 indicates the quantity of munitions in the inner pack.

f. Total Weight (lbs). Column 6 indicates total weight of the outer and inner pack and contents.

g. Total Explosives Weight (lbs). Column 7 indicates the total weight of explosives of the packaged munitions.

h. Cube. Column 8 indicates result of the length, multiplied by the width, multiplied by height of the outer pack.

i. Field Storage Compatibility. Column 9 indicates the primary groups into which ammunition is segregated for storage in the field.

PACKING, MARKING AND STORAGE

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
SHOTGUN CARTRIDGES CARTRIDGE, SHOTGUN, .410, No. 6, M35 Cal .22/.410 Gage.	Wood box	Carton	500	25/ctn	78.0	0.5	1.49	A	*Commercial pack
CARTRIDGE, SHOTGUN, 10 gage, blank.	Wood Box	carton	500	10/ctn 24/ctn	37.5	—	0.8	A	*Commercial pack
CARTRIDGE, SHOTGUN, 12 gage, No. 00, M19.	Wood box	Carton/ metal box (2)	480	10/ctn 24/ctn/ metal box	88.0	1.7	1.28	A	10521660
CARTRIDGE, SHOTGUN, 12 gage, No. 4, M257.	Wirebound box	Metal box (2)	480	10/ctn 24 ctn 2 ctn/metal box	88.0	1.7	1.28	A	*7553347
CARTRIDGE, SHOTGUN, 12 Gage, No. 4 M274.	—	—	—	25/ctn	—	—	—	A	Commercial pack
CARTRIDGE, SHOTGUN, 12 gage No. 00 XM162–commerical pack.	Wirebound box	Metal box (2)	480	10/ctn 24 ctn/metal box	81.7	—	1.52	A	*
CARTRIDGE, SHOTGUN, 12 gage No. 00 paper, commercial pack.	Wirebound box	Metal box (2)	350	25/ctn 14 ctn metal box	66.3	—	.90	A	*
CALIBER .22 CARTRIDGES CARTRIDGE, CAL .22 ball, long rifle M24.	Wirebound box	Metal box	10,200	50/ctn 10/ctn 8 ctn/22 ctn	46.0	2.5	1.47	A	*7553769
CARTRIDGE, CAL .22 ball, hornet M65 (soft point).	Wood box	Ctn/ containers	2,000	50 ctn/ 40 ctn/box	37.0	3.0	0.38	A	*Commercial pack
CARTRIDGE, CAL .22 ball, long rifle, match shade, commercial pack.	—	—	—	—	—	—	—	A	*Commercial pack

*For additional packing, refer to SC 1305/30-IL.

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
CALIBER .22 CARTRIDGES—Continued									
CARTRIDGE, CAL .22 ball, short super match or equal commercial pack.	—	—	2,000	—	—	—	—	A	*Commercial pack
CARTRIDGE, CAL .22 Tracer, Long Rifle M861	—	—	—	—	—	—	—	A	*Commercial pack
CALIBER .32 CARTRIDGES									
CARTRIDGE, CAL .32, BALL.	Wood box	Carton	2,500	50/ctn 50 ctn/box	40.0	—	0.33	A	Commercial
CALIBER .38 CARTRIDGES									
CARTRIDGE, CAL .38 BALL.	Wood box	Carton	2,000	50/ctn 40 ctn/MB	94.4	—	0.90	A	*Commercial 6038
CARTRIDGE, CAL .38, BALL WAD CUTTER	Wirebound box	Ctn metal box (2)	2,400	50/ctn 24 ctn/MB	94.4	—	0.90	A	*10522441
CARTRIDGE, CAL .38, BALL, SPECIAL, M41	Wirebound box	Ctn metal box (2)	2,400	50/ctn 24 ctn/MB	94.4	1.5	0.90	A	*7553763
CALIBER .45 CARTRIDGES									
CARTRIDGE, CAL .45, BALL, HIGH PRESSURE TEST, M1.	Wirebound box	Cartons Wood box (2)	2,000	20/ctn 50 ctn/wood box	117.0	2.0	0.90	A	*10534191
CARTRIDGE, CAL .45, BLANK, M9.	Wood box	Cartons metal box (2)	2,000	50/ctn 12 ctn/MB	102.3	2.8	0.90	A	*7553728
CARTRIDGE, CAL .45, TRACER M26.	Wirebound box	Cartons metal box (2)	2,000	50/ctn 20 ctn/MB	102.3	1.70	0.90	D	*7553728
CARTRIDGE, CAL .45, LINE THROWING, M32 (Blank).	Wood box	Carton	1,000	20/ctn 50 ctn/		—	1.04	A	10542548
CARTRIDGE, CAL .45, BALL, M1911.	Wirebound box	Cartons metal box (2)	2,000	50/ctn 20/ctn metal box	102.3	1.43	.090	A	*10553728

*For additional packing, refer to SC 1305/30-IL.

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
CALIBER .45 CARTRIDGES—Continued									
CARTRIDGE, CAL .45, BALL, MATCH, M1911.	Wirebound box	Cartons metal box (2)	2,000	50/ctn 20 ctn/wood box	115.0	1.43	0.90	A	8596134
DUMMY CARTRIDGE, CAL .45, M1921.	Wirebound box	Carton metal box	2,000	50/ctn 20 ctn/MB	102.3	N/A	0.90	A	*10553728
CARTRIDGE, CAL .45, WAD CUTTER.	Wood Box	Carton	1,000	20/ctn 50 ctn	55.0	—	1.04	A	*Commercial
CALIBER .50 CARTRIDGES									
CARTRIDGE, CAL .50, TRACER, M1.	Wirebound box	Metal box (2)	200	100	77.1	6.5	0.90	D	*7553346
CARTRIDGE, CAL .50, TRACER, M10.	Wirebound box	Metal box (2)	200	100	77.1	6.5	0.90	D	*7553346
CARTRIDGE, CAL .50, TRACER, M17.	Wirebound box	Metal box (2)	200	100	77.1	6.4	0.90	D	*7553346 8596993
CARTRIDGE, CAL .50, BALL HIGH PRESSURE TEST, M1.	Wirebound box	Carton metal box (2)	180	10 ctn 5 ctn/MB	75.26	6.0	0.90	A	*10534277
CARTRIDGE, CAL .50, BALL HIGH PRESSURE TEST, M251.	Wirebound box	Carton metal box (2)	220	10/ctn 11 ctn/MB	76.6	4.46	0.90	A	10534778
CARTRIDGE, CAL .50, BALL M2.	Wirebound box	Metal box (2)	200	100	77.1	6.7	0.90	A	7553346
CARTRIDGE, CAL .50, BALL, M33.	Wirebound box	Metal box (2)	200	100	77.1	6.7	0.90	A	7553346
CARTRIDGE, CAL .50, BALL, SPOTTER-TRACER, M48A2 (A1 Rifle M8C).	Wirebound box	Carton* Metal box (2)	220	10/ctn 11 ctn/MB	76.6	3.48	0.90	D	*7553719
CARTRIDGE, CAL .50, BALL, PRACTICE T249E2 (A1 Rifle M8C).	Wirebound box	Carton Metal box (2)	220	10/ctn 11 ctn/MB	76.6	3.48	0.90	A	10534780
CARTRIDGE, CAL .50, BALL, ARMOR PIERCING, M2.	Wirebound box	Metal box (2)	200	100	77.1	6.7	0.90	A	*7553346

*For additional packing, refer to SC 1305/30-IL.

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
CALIBER .50 CARTRIDGES—Continued									
CARTRIDGE, CAL .50, BALL, ARMOR PIERCING INCENDIARY M8.	Wirebound box	Metal Box (2)	200	100	77.1	6.58	0.90	D	*7553348 8596993
CARTRIDGE, CAL .50, BALL, ARMOR PIERCING INCENDIARY, TRACER, M20.	Wirebound box	Metal box (2)	200	100	77.1	6.5	0.90	D	*7553346
CARTRIDGE, CAL .50, INCENDIARY, M1.	Wirebound box	Metal box (2)	200	100	77.1	6.8	0.90	D	*7553346
CARTRIDGE, CAL .50, INCENDIARY M23.	Wirebound box	Metal box (2)	200	100	77.1	6.8	0.90	D	*7553346
CARTRIDGE, CAL .50, BLANK, M1	Wirebound box	Metal box	200	100	77.1	6.7	0.90	A	*7553346
CARTRIDGE, CAL .50, Blank, M1A1	Wirebound box	Metal box	200	100	77.1	6.7	0.90	A	*7553346
DUMMY CARTRIDGE, CAL .50; M2.	Wood box	Container	350	20/ctn 35 ctn/box	85.0	N/A	1.49	A	*7690572
CARTRIDGE, CAL .50, BALL, PLASTIC PRACTICE, M858	Wirebound box	Metal box (2)	200	100	40.4	1.4	0.90	A	*9340557
CARTRIDGE, CAL. .50, TRACER, PLASTIC PRACTICE, M860	Wirebound box	Metal box (2)	200	100	40.4	1.4	0.90	A	*9340558
5.56MM CARTRIDGES									
CARTRIDGE, 5.56MM, BALL, M193.	Wirebound box	Bandoliers metal box (2)	1,120	560	50.84	4.0	0.90	A	*10534606 10542258 10542651
CARTRIDGE, 5.56MM, GRENADE, M195.	Wirebound box	Carton Metal box (2)	2,280	20/ctn 52 ctn/MB	57.12	8.0	0.90	A	10542290 *10642291
CARTRIDGE, 5.56MM, TRACER, M196.	Wirebound box	Bandoleer metal box (2)	1,120	560	50.84	4.56	0.90	D	*10534606 10542258 10542651
CARTRIDGE, 5.56MM, HIGH PRESSURE TEST, M197.	Wirebound box	Carton metal box (2)	1,640	820	62.70	3.8	0.90	A	*10534012 10542540
CARTRIDGE, 5.56MM, BLANK M200.	Wirebound box	Carton metal box (2)	2,280	20/ctn 52 ctn/MB	57.12	2.28	0.90	A	10542290 *10542291

*For additional packing, refer to SC 1305/30-II.

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
5.56MM CARTRIDGES—Continued									
DUMMY CARTRIDGE, 5.56MM M199.	Wirebound box	Carton metal box (2)	1,640	820	57.10	N/A	0.90	A	*10535858
DUMMY CARTRIDGE, 5.56MM M232.	Wirebound box	Carton metal box (2)	1,640	820	64.5	N/A	0.90	A	*10535858
CARTRIDGE, 5.56MM: GRENADE M755	ITEM IS PACKED WITH PROJECTILE 64MM: RIOT CONTROL M743 NSN 1310-01-015-6246 3638								D122-3-141
CARTRIDGE, 5.56MM: BALL, M855	Wirebound box	Carton Metal box (2)	1,120	560	50.84	4.0	0.90	A	9342862
CARTRIDGE, 5.56MM: TRACER, M856	Wirebound box	Carton Metal box (2)	1,120	560	50.84	4.56	0.90	D	9342863
CARTRIDGE, 5.56MM: PLASTIC. PRACTICE, M862	Wirebound box	Carton metal box (2)	N/A	N/A	N/A	N/A	0.90	A	9341508
7.62MM CARTRIDGES									
CARTRIDGE, 7.62MM, BALL, M59.	Wirebound box	Cartons metal box (4)	960	20/ctn 12 ctn/MB 240	7.65	6.30	0.93	A	*7553708
CARTRIDGE, 7.62MM, HIGH PRESSURE TEST, M60.	Wirebound box	Cartons metal box (4)	960	20/ctn 12 ctn/MB 240	78.8	5.62	0.93	A	*8595430
CARTRIDGE, 7.62MM, BALL, M80.	Wirebound box	Cartons metal box (4)	960	20/ctn 12 ctn/MB 240	76.5	6.30	0.93	A	*10523087
CARTRIDGE, 7.62MM, BALL, MATCH, M118.	Wirebound box	Cartons metal box (2)	920	20/ctn 23 ctn/MB 460	73.42	5.71	0.90	A	*8596112 7553296
CARTRIDGE, 7.62MM Ball, Match M852	Wirebound box	Cartons metalbox (2)	920	20/ctn 23 ctn/MB 460	73.42	5.72	0.90	A	7553296

*For additional packing, refer to SC 1305-90-H.

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
7.62MM CARTRIDGES—Continued									
CARTRIDGE, 7.62MM, BALL, DUPLEX, M198.	Wirebound box	Cartons metal box (4)	800	20/ctn 10 ctn/MB 200	77.8	4.55	0.93	A	*8597306
CARTRIDGE, 7.62MM, ARMOR PIERCING, M61.	Wirebound box	Carton metal box (4)	960	20 ctn 12 ctn/MB 240	76.5	5.62	0.93	A	*7553708
CARTRIDGE, 7.62MM, TRACER, M62.	Wirebound box	Carton metal box (4)	960	20/ctn 12 ctn/MB 240	76.5	6.28	0.93	D	*7553708
CARTRIDGE, 7.62MM GRENADE, M64.	Wirebound box	Carton metal box (2)	580	5/ctn 58 ctn/MB 290	39.43	3.8	0.90	A	*10521851
CARTRIDGE, 7.62MM, BLANK, M82.	Wirebound box	Carton metal box (2)	840	420	72.4	1.80	0.90	A	*8594726

*For additional packing, refer to SC 1305/30-IL.

Item	Outer pack	Inner pack	No. items in package	items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
7.62MM CARTRIDGES—Continued									
CARTRIDGE, 7.62MM, FRANGIBLE, M160.	Wirebound box	Carton metal (4)	800	100 rd belt 2 belt/MB 200	69.48	12.0	0.93	A	*10522480
DUMMY CARTRIDGE, 7.62MM, M63.	Wirebound box	Carton metal box (2)	920	20/ctn 23 ctn/MB 460	55.66	N/A	0.90	A	*7553747
DUMMY CARTRIDGE, 7.62MM M172.	Wirebound box	Carton metal box	800	600/belt 1 belt/ctn	81.00	N/A	0.90	A	*10521861
9MM CARTRIDGES									
CARTRIDGE, 9MM, BALL	Wood box	Carton metal box	2,000	58 ctn 40 ctn	—	MBR**	—	A	Commercial pack
CARTRIDGE, 9MM, BALL, NATO, M882	Wirebound box	Cartons metal box (2)	2,000	50/ctn 20ctn/box	80	1.7	0.90	A	*9345211
CARTRIDGE, 9MM, TEST, HIGH PRESSURE, M905	Wirebound box	Cartons metal box (2)	*2,000	50/ctn 20ctn/box	80	2.0	0.90	A	*9378265
14.5MM CARTRIDGES									
CARTRIDGE, 14.5MM TRAINER-SPOTTER, M181A1	Wood box Wood box	Metal box Metal box (2)	500 500	10/ctn 10/ctn 50 ctn/MB	—	2.5	—	A	9098295
CARTRIDGE, 14.5MM, TRAINER-SPOTTER, M182A1	Wood box	Metal box (2)	500	10/ctn 50 ctn/MB	—	—	—	A	11738790 11738800
CARTRIDGE, 14.5MM: TRAINER-SPOTTER, M183A1	Wood box	Metal box (2)	500	10/ctn 50 ctn	—	—	—	A	11738799 11738800
20MM CARTRIDGES:									
CARTRIDGE, 20MM, M52E1.	Metal box M548	N/A	200	200	113.0	MBR	1.30	D	*7258942 7258943
CARTRIDGE, 20MM: API, M53.	Metal box M548	N/A	100	100	95.0	1.14	1.30	D	*7258969 7258970
CARTRIDGE, 20MM, AP-T, M95.	Metal box	N/A	120	120	106	1.96	1.55	D	*7258969 7258970
DUMMY CARTRIDGE, 20MM:M51A2.	Metal box XM548	N/A	100	100	93.0	N/A	1.30	A	*7589943
CARTRIDGE, 20MM:HPT, M54A1.	Metal box M548	N/A	200	200	142.0	MBR**	1.30	D	7258969 7258970
CARTRIDGE, 20MM:TP, M55A2.	Metal box M543	N/A	100	100	95.0	MBR**	1.30	A	*7258943

*For additional Packing refer to SC 1305/30-IL.

**Meet Ballistic requirements

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
CARTRIDGE, 20MM:TP —Continued									
CARTRIDGE, 20MM:TP, M204.	Metal box M548	N/A	200	200	120.0	MBR*	1.30	A	*7558928
CARTRIDGE, 20MM: TP-T, M206A1.	Wirebound box	Metal box M528	62	31/MB 2 MB/wirebound	58.0	MBR**	0.38	D	*10542309
CARTRIDGE, 20MM: Incendiary M96.	Wood box	Metal box	120	10/ctn 20 ctn/metcl box	96.0	2.90	1.43	D	*7258943 7258940
CARTRIDGE, 20MM: TP, M99A1.	Wood box	Metal containers	150	25/cntr 6 cntr	106.0	3.5	1.39	A	*7258943 7258940
CARTRIDGE, 20MM: TP-T, M220.	Metal box M548	N/A	200	200	141.0	MBR**	1.30	D	7558943
CARTRIDGE, 20MM, HEI, M56A3/M56A4.	Metal box M548	N/A	100	100	93.0	3.07	1.30	D	*7258969 7258970 725943
CARTRIDGES, 20MM: HEI, M97A2.	Metal box	Metal can	165	55/can 3 cans	131.0	2.82	1.55	D	*7553334
CARTRIDGE, 20MM, HEI, M210.	Metal box M548	N/A	150	150	88.0	MBR**	1.30	D	7258189 7258190
CARTRIDGE, 20MM, HEI, M242 /M242A1	Metal box M548	N/A	100	100	45.0	8.5	1.30	D	*7559237 725943
CARTRIDGE, 20MM, HEI-T-SD, M246/M246A1	Metal box M548	N/A	100	100	93.0	MBR**	1.30	D	*7558943 725943
CARTRIDGE, 20MM: API-T, M601.	Metal box M528	N/A	25	25	—	MBR**	.35	D	*10542309 10542308
CARTRIDGE, 20MM, HEI-T, M599.	Metal box M528	N/A	25	25	—	MBR**	.35	D	10542309 10542308
22 MILLIMETER 22MM SUB-CALIBER PRACTICE CARTRIDGE, M744.	Wood box	—	100	1 per polystyrene compartment	109.0	21.00	3.9	C	9322198 9322201
22MM SUB-CALIBER PRACTICE CARTRIDGE, M745.	Wood box	—	100	1 per polystrene compartment	109.0	25.00	3.9	C	9322198 9322201
25MM SUB-CALIBERS PRACTICE CARTRIDGE, M746.	Wood box	—	100	1 per polystyrene compartment	109.0	42.00	3.9	C	9322198 9322201

*For additional Packing refer to SC 1305/30-IL.

**Meet Ballistic requirements

Item	Outer pack	Inner pack	No. items in package	No. items inner pack	Total weight (lbs)	Total explosive weight	Cube	Field storage cat.	Remarks and Dwg. No.
22MM CARTRIDGES—Continued									
22MM SUB-CALIBER PRACTICE CARTRIDGE, M747	Wood box	—	100	1 per polystyrene compartment	109.0	50.00	3.9	C	9322198 9322201
25MM CARTRIDGES									
CARTRIDGES, 25MM, T, M791.	Plastic storage container XM621	2 plastic separators	30	30	48.0	4.1	.61	D	12013671
CARTRIDGES, 25MM, HEI-T, M792.	Plastic storage container XM621	2 plastic separators	30	30	48.0	3.4	.61	D	†12013671
CARTRIDGES, 25MM, TP-T, M793.	Plastic storage container XM621	2 plastic separators	30	30	48.0	4.1	.61	D	†12013671
25.4MM CARTRIDGES									
CARTRIDGES, 25.4MM, DECOY, M839	Wood box	2 Containers	100	50	67.0	0.08	1.5	B	9329776
30MM CARTRIDGES:									
CARTRIDGE, 30MM, HE-DP M789.	Metal container XM592	Container	201 (121 bulk) (80 linked)	201	126	21.0	1.5	A	†9229066
CARTRIDGE, 30MM, TP, M788.	Metal container XM592	Container	201 (121 bulk) (80 linked)	201	126	13.31	1.5	A	9229066
CARTRIDGE, 30MM, HEI,	Metal container XM592	Container	201 (121 bulk) (80 linked)	201	126	22.0	1.5	A	9229066

†Contractor Drawings.

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General, United States Army
Chief of Staff

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3-10		3-2	
4-5		4-1	

IN THIS SPACE TELL WHAT IS WRONG AND WHAT SHOULD BE DONE ABOUT IT:

Change illustration. Reason: Tube end shown assembled on wrong side of lever cam.

Figure 4-1, item 3 has the wrong NSN. Supply rejects orders for this item. The NSN shown here is not listed in the AMDF or the MCRL. Please give us the correct NSN and P/N.

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